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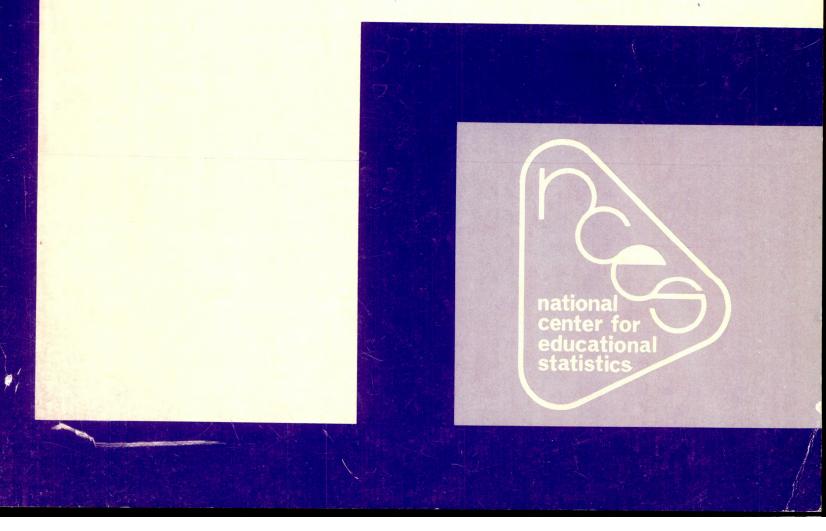
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STANDARD TERMINOLOGY FOR CURRICULUM AND INSTRUCTION IN LOCAL AND STATE SCHOOL SYSTEMS

State Educational Records and Reports Series: Handbook VI



COOPERATING ASSOCIATIONS

providing assistance in all parts of the handbook and throughout the project—from inception to completion

American Association of Junior Colleges
American Association of School Administrators
American Personnel and Guidance Association
American Vocational Association, Inc.
Association for Childhood Education International
Association for Supervision and Curriculum Development
Association of Classroom Teachers of the NEA
Council for Exceptional Children
Council of Chief State School Officers
Department of Elementary School Principals of the NEA
National Association for Public School Adult Education
National Association of Secondary School Principals
National School Boards Association, Inc.



STANDARD TERMINOLOGY FOR CURRICULUM AND INSTRUCTION IN LOCAL AND STATE SCHOOL SYSTEMS

Compiled and edited in the Office of Education by John F. Putnam and W. Dale Chismore Specialists in Educational Records and Reports

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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Foreword

Standard Terminology For Curriculum and Instruction in Local and State School Systems presents a basis for describing curriculum and instruction in elementary, secondary, junior college, and adult education in the United States. The terminology, definitions, and classifications of items in this handbook—representing, in effect, a language of communication—are the result of 5 years of cooperative effort by some 70 national organizations and the Office of Education. During this time, handbook development activities involved hundreds of educators and noneducators representing all geographical areas of the United States and great diversity in responsibility, experience, and preparation.

Undertaken at the request of a number of national organizations, this handbook is the sixth in the State Educational Records and Reports Series. Handbook I, "The Common Core of State Educational Information," was published by the Office of Education in 1953. Handbook II, "Financial Accounting for Local and State School Systems," and Handbook III, "Property Accounting for Local and State School Systems" were completed in 1957 and 1959, respectively. A handbook about employed personnel, Handbook IV, "Staff Accounting for Local and State School Systems," published in 1965, was developed concurrently with Handbook V, "Pupil Accounting for Local and State School Systems," published in 1964.

Preliminary work on Handbook VI—the handbook of terminology about curriculum and instruction—was initiated in 1959. After 6 months of research activity, OE personnel on this project were transferred temporarily to another project. Later, another year of research activity preceded the Policy Meeting, the first official conference of the handbook project.

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Convening at the invitation of the U.S. Commissioner of Education in April 1964, a policy committee—comprising the executive secretaries of 13 cooperating organizations—identified the project's prime purpose as the development of a manual of items of information about curriculum and instruction which are needed for the operation of local schools and which will provide guidance for wording information requests from State education agencies and the Office of Education. Agreement was reached on the overall plan for conducting the project and the role each organization was to assume.

This handbook was developed through a series of conferences in accordance with the plan agreed upon by the policy committee. Representatives to the three national conferences and nine regional meetings were selected by the 13 cooperating organizations through their executive secretaries. Decisions reached at all meetings were those of the representatives of the associations. The function of Office of Education personnel was to do the initial research, coordinate the content of this handbook with other handbooks of the series, edit handbook drafts, prepare for and conduct meetings, and provide the best information possible for the use of conference participants in reaching sound decisions. At each step in the project the Office of Education handbook personnel consulted with appropriate specialists—within and outside the Office of Education for their reactions and suggestions.

The overall project plan was set into motion on May 20 and 21, 1964, at the National Planning Conference of representatives of the 13 original organizations plus the Research Division of the National Education Association. These representatives determined the general scope and content of the handbook of terminology about curriculum and instruction.

Office of Education staff members developed the first preliminary draft of the handbook following the guidelines established at the planning conference and utilizing the results of their own study of forms and manuals used in the 50 States and in more than 200 local school systems.

The first draft was subjected to critical examination at a Technical Conference in March 1965, as six persons representing various cooperating organizations met with the Office of Education staff for 5 days. As a result of this meeting, the handbook was structured to reflect the organization, administration, content, resources, and processes of instruction.

Eighteen ad hoc committees met between June 1965 and June 1966 to analyze and refine substantive content that would be descriptive of the various subject-matter areas as appropriate to elementary, secondary, junior college, and adult education. These committees involved 216 specialists representing local school systems, State departments of



education, colleges and universities, business and in-

dustry, labor, the Office of Education, and others.

The work of the Technical Conference and the ad hoc committees was incorporated into the second draft of the handbook, which was reviewed in August 1966 at the National Review Conference. This 4-day, item-by-item review by representatives of the 13 cooperating organizations and the NEA Research Division readied the docu-

ment for use at a series of nine regional meetings.

Three-day Regional Conference were held during June and July 1967 at Boston, Mass.; Washington, D.C.; Atlanta, Ga.; Columbus, Ohio; Des Moines, Iowa; Dallas, Tex.; Salt Lake City, Utah, Billings, Mont.; and San Francisco, Calif. These meetings brought together 141 representatives of the 13 original organizations, who studied the handbook draft intensively and made recommendations to improve it for meeting the wide variations in needs and practices across the country. On most items there was general agreement. The comparatively few issues on which differences of opinion existed were submitted, as appropriate, to the ad hoc committees, professional organizations, and qualified specialists for recommendations before becoming topics for consideration at the National Completion Conference.

The National Completion Conference was held March 10-12, 1969. A majority of its participants, selected by the executive secretaries of the 13 organizations involved in all phases of the project, had taken part also in the earlier National Review Conference. At this concluding 3-day meeting, issues were resolved and final decisions were made on the organization and content of the handbook.

The final draft was completed and duplicated in the spring of 1969, and copies were distributed to all 76 participating organizations. Subsequently, each of the 13 cooperating organizations providing continual guidance and assistance from the inception of the project to its completion officially approved the handbook as the basic guide for items of information about curriculum and instruction to be used in the local and State school systems of the United States. Further, they recommended that Federal, State, and local agencies effect its use as promptly as feasible.

It is anticipated that, at some future date, it will be necessary to reappraise all items and definitions in this handbook in light of the experience gained through implementation and usage. Through such action, the value of this handbook may be maintained.

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Grateful acknowledgment is extended to the organizations listed below for their contributions to this cooperative project. The names of individuals taking part at conferences are listed in the appendix.

Alexander Graham Bell Association for the Deaf, Inc.

American Association for Health, Physical Education, and Recreation

American Association of Instructors of the Blind

American Association of Junior Colleges

American Association of School Administrators

American Association of School Librarians of the ALA

American Association on Mental Deficiency

American Classical League

American Economic Association

American Federation of Teachers

American Foundation for the Blind

American Historical Association

American Hospital Association

American Industrial Arts Association, Inc.

American Mathematical Society

American Musicological Society

American Personnel and Guidance Association

American Political Science Association

American Psychological Association

American Speech and Hearing Association

American Technical Education Association

American Vocational Association, Inc.

Association for Childhood Education International

Association for Supervision and Curriculum Development

Association of Classroom Teachers of the National Education Association

Association of School Business Officials of the United States and Canada

Bureau of the Census, U.S. Department of Commerce

Children's Bureau, U.S. Department of Health, Education, and Welfare

Commission on Undergraduate Education in the Biological Sciences

Conference of Executives of American Schools for the Deaf

Convention of American Instructors of the Deaf Council for Exceptional Children

Council for Distributive Teacher Education

Council of Chief State School Officers

Department of Audiovisual Instruction of the NEA

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Department of Elementary-Kindergarten-Nursery Education of the NEA Department of Elementary School Principals of the NEA

Distributive Education Clubs of America

International Reading Association

Joint Council on Economic Education

Mathematical Association of America, Inc.

Modern Language Association of America

Music Educators National Conference (NEA)

National Art Education Association

National Association for Mental Health

National Association for Public School Adult Education

National Association for Retarded Children

National Association for the Education of Young Children

National Association of Distributive Education Teachers

National Association of Secondary School Principals

National Association of State Directors of Special Education

National Association of State Supervisors for Distributive Education

National Business Education Association

National Catholic Educational Association

National Commission on Safety Education (NEA)

National Council for Geographic Education

National Council for the Social Studies

National Council of Teachers of English

National Council of Teachers of Mathematics

National Health Council

National Rehabilitation Association

National School Boards Association, Inc.

National Science Teachers Association

National Society for Crippled Children and Adults

National Society for the Prevention of Blindness, Inc.

National Study of Secondary School Evaluation

Office of Economic Opportunity

Office of the Assistant Commissioner for Education, Bureau of Indian

Affairs, U.S. Department of the Interior

Office of Education, U.S. Department of Health, Education, and Welfare

Public Health Service, U.S. Department of Health, Education, and Welfare

Research Division, National Education Association

Speech Association of America

United Business Schools Association

U.S. Department of Agriculture

U.S. Department of Defense

U.S. Department of Labor, Manpower Administration, U.S. Training and Employment Service



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1

Introduction

This handbook is a guide for local and State school systems for items of information used in keeping records and making reports about curriculum and instruction. It classifies and defines specific items of information about the organization, administration, content, resources, and processes of curriculum development and instruction and includes additional related terminology. In so doing, the handbook is concerned with terminology for describing curriculum and instruction in elementary schools, middle schools, secondary schools, junior colleges,1 and adult schools or other adult education organizational arrangements.2

Three basic criteria—need, communication, and reasonableness—were used as guides in the selection of each item for inclusion in this handbook. According to these criteria, each item provides information that (1) may be important to and needed by local school systems for the effective operation of their schools; (2) may be needed for the exchange, reporting, or storage of information about pupils and their studies, staff members and their assignments, and schools and school systems and their approval and accreditation, or for comparisons of information about curriculum and instruction; and (3) can be collected and maintained as a

record with reasonable effort.

The use of this handbook may provide school officials with guidance in identifying items of information from which to obtain factual and comparative data for developing their own policies and decisions and for more effectively communicating with their publics, their legislative bodies, and educational organizations. The use of these items permits comparability wherever these items are collected, maintained, and reported by local school districts and other units operating schools. In order to achieve such comparability, collecting of information should be done on the basis of the definitions included in the handbook, and reporting should be done on the basis of the handbook terminology. Thus, these items may

provide the foundation for records and reports about curriculum and instruction at the local, State, and national levels, and provide a means for accurately recording, transmitting, and interpreting information about curriculum and instruction.

Handbook Series

This handbook is one of a series of handbooks developed cooperatively to facilitate and improve the collection, maintenance, and reporting of educational information. Handbook I, The Common Core of State Educational Information, was published in 1953. It was followed by Handbook II, Financial Accounting for Local and State School Systems, in 1957; Handbook III, Property Accounting for Local and State School Systems, in 1959; Handbook IV, Staff Accounting for Local and State School Systems, in 1965; and Handbook V, Pupil Accounting for Local and State School Systems, which was completed in 1964.

The items of information in the various handbooks are interrelated. Many of the definitions of items in this handbook are the same as those developed for others in the series; other definitions have been modified or expanded, as has been indicated for those items included in the glossary. In several portions of this handbook reference is made to items of information in the other handbooks.

Benefits of Standardized Information About Curriculum and Instruction

The consistent use of the terminology in this handbook can help improve the quality of education by facilitating meaningful evaluation, realistic planning, and efficient operation of educational systems throughout the United States. It can result in improved decisionmaking capabilities in areas such as administration, guidance of individual pupils, curriculum improvement, and instruction.

The standardized terminology in this handbook provides a basis by which items of information about curriculum and instruction can be recorded, reported,

¹ Defined in chapter 4; see index for page references.

² A definition for "adult education" is in the Glossary; for "adult school or other adult education organizational arrangement," on page 61.

and studied adequately. When such information is used, records and reports may be prepared with greater speed, accuracy, and flexibility.

Wide use of the items of information in this handbook, accurately recorded at their source, will re-

sult in the advantages of-

 a sound basis for describing and evaluating administrative, organizational, and teaching practices;

· a greater quantity of significant information to

guide local, State, and national authorities in determining educational needs and policies;

 easier and more reliable reporting to the public on the condition and progress of education;

 ease in utilizing local administrative information in reports to State agencies (facilitated by the use of electronic data processing equipment);

 greater consistency in the kinds of information accompanying pupils who transfer from one school or school system to another or from a

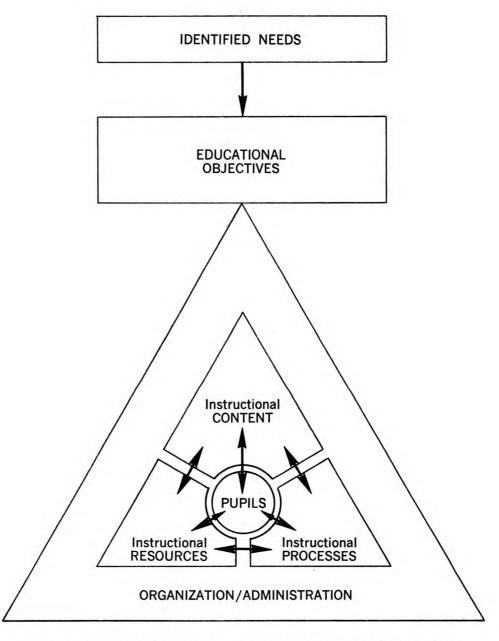


Figure 1. — Some aspects of curriculum and instruction and their interrelationships

secondary school to a college or other institution:

 greater comparability of information about instructional programs within the various communities and States;

greater accuracy in the summaries of information compiled by local, State, and national offices; and

 more favorable conditions for research and use of research data.

In addition, reports based on these standardized items of information will not only reinforce the confidence of their users but also will be more generally applicable and more easily interpreted than reports

based on various nonstandard items.

Within a local or State school system, standardized items of information recorded or processed manually may be readily compared and combined with the same standardized items of information processed by automatic data processing systems. Further, the use of standardized items of information is essential to the orderly and efficient conversion from manual to automatic data processing. In such a conversion, the adoption of standard classifications and terminology is a necessary first step, whether a school system plans to initiate or to extend automatic data processing for an individual school or for the entire school

Basic Definitions

The term instructional program is defined as the totality of the curriculum and its implementation through direct instruction and other means.

The curriculum is considered to encompass the instructional activities planned and provided for pupils by the school or school system. The curriculum, therefore, is the planned interaction of pupils with instructional content, instructional resources, and instructional processes for the attainment of educational objectives.

Figure 1 illustrates these relationships. It shows the way in which-

educational objectives are derived from identified needs;

 an organizational arrangement is developed or utilized for achieving these objectives; and

pupils are brought into the environment of this organizational arrangement (usually a school) where they interact with the content, resources,

and processes of instruction.

Instruction includes the activities dealing directly with the teaching of pupils and with improving the quality of teaching. Teaching, the major aspect of instruction, may be provided for pupils in a classroom of a school or in another location such as in a home or hospital; it may be provided by direct pupil-teacher interaction or through some other approved medium such as television, radio, telephone, and correspondence.

Learning is of greatest importance. The purpose of instruction is to enhance learning. The items of information in this handbook, however, were selected to describe that which is provided for pupils in the instructional process rather than that which is acquired by pupils as learning.

In summarizing the meaning of the two terms curriculum and instruction, one might consider that the curriculum is what is taught, and instruction is

how it is taught.

A pupil is defined as an individual for whom instruction is provided in an educational program under the jurisdiction of a school or school system. No distinction is made between the terms pupil and student; the term pupil is used here to include all individuals receiving instruction.

Other definitions may be located through use of

the index.

Content of This Handbook

This handbook provides three principal kinds of information about the standard terminology of curriculum and instruction at various levels in local and State school systems: Items of information about the organization, administration, content, resources, and processes of instruction; the subject matter of the curriculum; and related terminology and other considerations.

Items of information about the organization, administration, content, resources, and processes of instruction are classified in detail in chapter 3 under the following major classes or levels of organization in a graduated numbering system:

ITEMS DESCRIBING A SCHOOL SYSTEM³

(1 00 00 Series)

ITEMS DESCRIBING A SCHOOL4

(2 00 00 Series)

ITEMS DESCRIBING A

PROGRAM OF STUDIES⁵ (3 00 00 Series)

ITEMS DESCRIBING A SELF-CONTAINED CLASS, COURSE, OR CO-

CURRICULAR ACTIVITY6

ITEMS DESCRIBING A SEC-TION OR INSTRUC-

TIONAL SERVICE ACTIVITY7

(5 00 00 Series)

(4 00 00 Series)

The items of information are organized within these major classes as illustrated in table 1. (Similar information is shown in table 6, citing page references.)

The definitions shown in chapter 4 are organized according to the categories of information-shown in the left column of table 1—in graduated series or levels of educational organization as shown to the right. The categories are then expanded according



See page 20.
See page 29.
See page 42.
See page 47.

⁷ See page 55.

Table 1.—Broad categories of information, by level of organization

| No. St. Mark St. Land | Level of organization (p. 21 ff.) | | | | | |
|---|-----------------------------------|--------|--------------------------|--|-----------------------------------|--|
| Category of information | School system | School | Program of studies | Self-contained class, course, or cocurricular activity | Section or service activity | |
| Organization/administration Instructional content Instructional resources Instructional processes Summary information | | | | | | |

to the following outline:

Organization/Administration

- 01—Specifications
- 02—Identification
- 03-Placement (grades, years, ages)
- 04—Level of difficulty or ability
- 05—Approval and/or accreditation
- 06—Time elements
- 07—Evaluation and curriculum improvement
- 08-Evaluating and reporting pupil progress
- 09—Pupils served
- 10—Entrance
- 11-Progress and promotion practices
- 12—Completion practices
- 13—Instruction

Instructional Content

- 21-Subject matter
- 22—Treatment of content
- 23—Planned instructional outcomes for pupils

Instructional Resources

- 31—Staff members
- 32—Services supporting instruction
- 33—Community resources
- 34—Location of instruction (or service)

- 35—Facilities
- 36—Instructional equipment and supplies

Instructional Processes

- 41—Structure of program of studies or course
- 42—Medium of instruction (or direction)
- 43—Methods of instruction (or direction)
- 44—Other procedures for instruction (or direction)

Summary Information

- 51—Schools
- 52—Facilities
- 53—Programs of studies
- 54—Services
- 55—Pupil membership
- 56—Staff members
- 57—Courses
- 58—Cocurricular activities
- 59—Sections

Other Information (99)

Items of information about the subject matter of the curriculum are classified in detail in chapter 5; descriptions and definitions are presented in chapter 6. The 22 curriculum areas presented in these chapters are identified, with page references, in table 2.

Table 2.—Curriculum areas of handbook and page numbers on which classifications and definitions begin

| Curriculum area | (Chapter 5) Classification on page 107 | (Chapter 6) Definitions on page 153 |
|---|--|---|
| 01—Agriculture | 107 | 153 |
| 02—Art | 110 | 158 |
| 03—Business | 111 | 160 |
| 04—Distributive Education | 117 | 170 |
| 05—English Language Arts | 120 | 177 |
| 06—Foreign Languages | 122 | 183 |
| 07—Health Occupations Education | 123 | 184 |
| 8-Health and Safety in Daily Living, Physical Education, and Recreation | 124 | 188 |
| 9—Home Economics | 127 | 193 |
| 0—Industrial Arts | 128 | 195 |
| 1 — Mathematics | 130 | 199 |
| 2—Music | 131 | 208 |
| 3—Natural Sciences | 132 | 209 |
| 14—Office Occupations | 134 | 213 |
| 15—Social Sciences/Social Studies | 136 | 218 |
| 6—Technical Education | 140 | 223 |
| 17—Trade and Industrial Occupations | 141 | 228 |
| 8—General Elementary Education and General Secondary Education | 144 | 238 |
| 9—Differentialized Curriculum for Handicapped Pupils | 145 | 239 |
| 9—Differentialized Curriculum for Trandicapped Tupils | 146 | 242 |
| 1—Safety and Driver Education | 148 | 246 |
| 22—Junior ROTC | 149 | 248 |
| 42—Junior ROTG | 147 | 240 |

It may be noted that the 22 curriculum areas include 20 specific subject-matter areas, one curriculum area devoted to general elementary and general secondary education, and one area to cocurricular activities. Of the 20 specific subject-matter areas, seven are frequently identified as occupational areas: agriculture, distributive education, health occupations education, home economics, office occupations, technical education, and trade and industrial occupations.⁸

Thus, this handbook serves primarily to identify and define items of information which can be used to describe aspects of curriculum and instruction. As an aid to using these items, chapter 2 "Information About Curriculum and Instruction" illustrates how these items may be used in developing records and reports. An alphabetical glossary of terms, including measures relating to curriculum and instruction, begins on page 257. The handbook

is concluded with an index.

Because it is not devoted to recordkeeping and reporting systems, this handbook touches only briefly on procedures for collecting, processing, and using information about curriculum and instruction. Comprehensive materials illustrative of machine or computer programming, data flow charts, collection forms, and card and tape layouts for data processing will be useful to or needed by local school systems and State education agencies when they begin to put this handbook into use.

Adapting This Handbook to Local Records and Reports Systems

The items of information presented and defined in this handbook have been identified as broad and comprehensive enough to describe present practice in planning, operating, and improving curriculum and instruction in most schools and school systems throughout the country. However, the needs for educational information vary from State to State

⁸ A manual has been prepared which relates subject matter in these occupational areas to selected occupations in the *Dictionary of Occupational Titles*. Published jointly by the Department of Labor and the Office of Education in 1969, this publication, entitled *Vocational Education and Occupations*, may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

and from school system to school system. This handbook provides for such variation in informational needs through its use of recommended and optional items and through its structure which provides for expansion within categories of information according to local and State requirements.

Provision is made in chapters 3 and 4 for the varying information needs of schools and school systems in the following manner:

Recommended items. It is recommended that a number of items of information about curriculum and instruction should be collected and maintained in comparable form for given types of instructional programs in all the school systems where they are applicable.

Optional items. A number of additional items are identified which may be collected and maintained for given types of instructional programs at the option of a school or school system. If collected and maintained, these items should incorporate handbook terms and definitions so that this additional information can be correctly interpreted and so that statistical information about any given school or system will be comparable with similar information about other schools and school systems.

The recommendations of this handbook are not intended to restrict the amount of information maintained. Schools and school systems should maintain whatever additional information they find necessary, maintaining a compatibility with the classifications and definitions of the handbook.

Finally, no item of information in this handbook is intended to take precedence in those situations where items of information of its type are either required or prohibited by law.

Thus, this handbook has been developed as a guide to types of factual and comparative data which school officials at all levels may use in developing their own policies and decisions and in communicating with their publics, their legislative bodies, and educational organizations.

Collecting and Using Information About Curriculum and Instruction

The teaching-learning process is the heart of education. It is for purposes of learning that schools are built, staff members employed, and pupils brought into the classroom. All who guide aspects of the educational enterprise require information about curriculum, instruction, and learning for many purposes including evaluation and decision-making.

The terms and definitions of this handbook have been selected primarily according to needs of local school personnel such as superintendents, directors of curriculum, principals, teachers, guidance counselors, and school board members (see criteria on page 1). Many such items collected for local purposes are forwarded to supply the information requirements of the State department of education and others. Ultimately, those requesting information from local school systems are likely to find handbook items to be more readily available for reporting in useable form than similar items not included in the handbook, and handbook items collected from various sources will be more comparable or combinable.

This chapter includes some guidelines and procedures for obtaining and using information chiefly about curriculum and instruction. In brief, the basic steps for strengthening a system or records and reports usually include—

identifying needs for information;

 establishing responsibility for planning and for obtaining information at the various administrative levels;

• selecting the required items of information, and

classifying and describing them;

• planning for the collection and communication of information, including the development of any forms necessary for rapid recording, combining, communicating, interpreting, and utilizing of the data;

•planning for coordination among areas of edu-

cational information; and

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implementing the new information system.

The Need for Information About Curriculum and Instruction

The starting point for the development or improvement of an information system is the determination of need. Needs for information about curriculum and instruction should help identify the objectives of the information system; these objectives, in turn, should lead to identification of the items of information required and their priorities.

Among persons and organizations needing information about curriculum and instruction are those having responsibility for operating schools, those providing services for schools and educators, governmental agencies, and segments of the general public, as is illustrated in table 3. They need information for purposes of evaluation, curriculum improvement, scheduling, assisting pupils, reporting, long-range planning, and other administrative functions, as is illustrated in table 4 for local schools and in table 5 for State education agencies.

The availability and use of appropriate and accurate information about curriculum and instruction can greatly enhance the effectiveness of educational decisionmaking locally, statewide, nationally, and

regionally.

Responsibility for Information About Curriculum and Instruction

Because information about curriculum and instruction is essential for planning and decision-making at all levels of educational administration, the responsibility for obtaining, combining, using, and forwarding appropriate educational information is shared by individual schools, the local school system, the State education agency, and the Office of Education.

This handbook primarily concerns information about curriculum and instruction. However, general principles stated here and elsewhere in this chapter may be applied broadly to an entire information system and to limited areas of information within the system as well.

Function and Responsibility of Individual School

Instruction generally takes place within a school. Therefore, most information about curriculum and instruction—for example, information about specific programs of studies, self-contained classes, and courses—originates within schools. This information must be collected accurately in the school, for no amount of manipulation at a later time will assure the accuracy of information not collected properly at its source. The school, therefore, is the most critical point in the information system.

All school staff members involved in collecting, storing, processing, and transmitting information have a vital responsibility for the accuracy of information. The importance of their activity justifies instruction in techniques which help to ensure accuracy.

Table 3.—An illustrative sampling of users of information about curriculum and instruction

Levels of Educational Organization Local schools and school systems

Public Nonpublic

Intermediate administrative units

State education agencies U.S. Office of Education

Legislative Bodies Local governmental units State legislatures

U.S. Congress

Governmental Agencies Local welfare agencies Local employment agencies Local health departments State departments of welfare State employment services Department of Agriculture

Department of Commerce (including Bureau of the Census)
Department of Labor

Department of State U.S. Civil Service Commission

Other comparable governmental agencies at all levels

The Public

Pupils and pupil organizations
Parents and parents' organizations
Voluntary lay citizens' organizations
Communications media

Researchers and organizations conducting research

Business, Industry, and Labor

Local businesses and industries

Labor organizations Chambers of Commerce

Associations of Educators

Local associations State associations National associations International associations

Other Institutions and Associations Accreditation and/or approval agencies Educational consultant services

Colleges of education Other colleges and universities

Foundations concerned with education

Table 4.—Illustrative functions of local schools and school systems requiring information about curriculum and instruction

Curriculum improvement: Evaluating appropriateness of curriculum

Evaluating effectiveness of instruction

Curriculum research

Short- and long-range planning and decisionmaking

Scheduling courses and sections for pupils Scheduling:

Assigning teachers to sections Scheduling sections into rooms

Developing pupil cumulative records **Assisting pupils:**

Interpreting, preparing, and transmitting transcripts Providing guidance services

Reporting:

To public, community groups, and news media To intermediate administrative unit (as applicable)

To State education agency

Table 5.—Illustrative functions of State education agencies requiring information about curriculum and instruction

Certification of teachers Approval:

Approval of instructional programs (as applicable)

Approval of teacher education programs.

Assisting Schools (including allocating of resources):

Curriculum research and curriculum improvement.

Review of curricular offerings

Review of enrollments and graduates

Projections of enrollments and financial arrangements State financial assistance to local school systems

Federal financial assistance to State and local school systems

Reporting:

Reports to legislature and/or governor Reports to U.S. Office of Education Reports to educational associations

Reports to news media



Function and Responsibility of Local School System

Personnel at the local school system level of organization generally assume leadership roles in coordinating the efforts of the staffs of the central office and the individual schools in planning and implementing educational information systems. Such coordination facilitates obtaining information for which there is an administrative need or a respon-

sibility.

To design and implement an effective and efficient information system, a school system will find it helpful to carry out the types of activities listed under the last heading on this page. Additionally, many of the activities described below for State education agencies are carried on also within larger school systems. If the information system is to reach full effectiveness in performing such operations, the school system and the schools must have adequate staffing, facilities, and financial support.

Function and Responsibility of State Education Agency

The strategic position of State education agencies puts upon each agency the responsibility for coordinating State and local statistical programs and providing the leadership and technical assistance necessary for planning and implementing a state-

wide information system.

Planning requires a careful analysis of the existing information system. Current regulations, manuals, procedures, and forms may need to be revised and new materials prepared for local, regional, and statewide consideration. It may be appropriate to initiate the development of a State handbook for information about curriculum and instruction, based on the national handbook.

In their planning, many State agencies arrange to space requests for information from local school systems in order to avoid, so far as possible, excessive demands at any given time. When all the local school systems of a State can and do provide the State agency with comparable information about instructional programs, the State agency can provide the local systems with compiled and interpreted information about instructional programs through-

out the State.

The State education agency may help guide and train local school system personnel by means of conferences, written materials, and direct assistance. Conferences may be used to familiarize local personnel with the need for, and details of, the national or State handbook of terminology, to discuss ways and means by which this handbook might most profitably be put into practice in each school system, and to consider revised or new materials based on the handbook. Articles by both local and State personnel dealing with various phases of implementation activities in local school systems may be circulated. Consultative services may be provided for those school systems needing help with specific problems. Pilot projects might be initiated in selected

school systems prior to general implementation of the information system throughout the State.

Finally, the State education agency may find it beneficial to enlist the support and cooperation of various local, State, and national professional organizations and of other State governmental agencies that have jurisdiction over segments of the State educational program.

Function and Responsibility of the Office of Education

The ability to evaluate the impact of the total educational system on national resources is essential for guiding national policy. One of the functions of the United States Office of Education is to act as the channel of communications between the Federal Government and the school structure acquainting Federal agencies with the status, capabilities, and needs of the schools, and conversely, interpreting Federal or national needs to the schools.

Since the administration of the schools of the Nation is decentralized the Office of Education is in a strategic position to provide a channel for coordination of educational activities for which the several States have common concern and responsibility. This handbook is one example of how the Office of Education functions in this capacity.

Numerous other activities of the Office of Education are conducted in response to its legal responsibility for reporting on the status and progress of education in the United States. Many of these activities involve relationships with educational agencies within the States, and are similar to those activities mentioned above for State agencies working with their local school systems.

Principles and Procedures for Planning and Implementing a System of Information About Curriculum and Instruction

A fundamental step in the improvement of information about curriculum and instruction at both State and local levels is placing administrative responsibility in the hands of a single person—a person who understands educational as well as technical aspects of educational information systems and who understands the relationships between instructional program information and information in the areas of pupil accounting, staff accounting, property accounting, and financial accounting. His activity should be coordinated with work in other areas of the total system of educational information. His work will be greatly facilitated by the active support of top administrators for any required changes in the information system, and he will require enough competent staff members to plan, supervise, and operate the system. Under his direction, the staff should:

 Identify all needs of the educational system for information about curriculum and instruction, including the uses to which the information will be put.



 Determine the objectives of the information system in light of these informational needs.

Plan carefully a step-by-step program for collecting, processing, interpreting, storing, and disseminating data, with consideration for requirements of all the various areas of educational information. The plan should be put into writing.

Make certain that requests for data are necessary, reasonable, and timely and that the information collected can flow readily from local records to reports needed by the administrative

officers at any level of organization.

Select items that are needed to meet informational needs and that suppliers are capable of furnishing. Wherever possible these data items should be described in standard terms to ensure comparability of information among schools of a school system and school systems of a State, thus permitting ready communication and generation of meaningful statistical totals. Items selected should be codable for automatic or electronic data processing.

 Incorporate the data items into appropriate information collection forms. These forms should be easy to understand, easy to fill in, easy to process. The number of forms should be kept to a minimum by limiting the number of duplicating or overlapping requests and by designing forms so that they can be used for

more than one purpose.

 Gain the cooperation of all concerned, and attempt to dispel any unwarranted fears or reservations.

- Provide whatever assistance is required by suppliers of data in carrying out their responsibilities.
- Ensure the accuracy of information at its source by helping staff members understand the purposes and importance of the information, impressing local employees with their responsibility for accurate information, and instructing them in the techniques of accurately collecting and processing information.

Utilize modern methods for processing information, including appropriate devices and procedures; and protect records against inappropriate use and loss through destructive haz-

ards.

 Make the transfer from the old to the new system in a deliberate and careful manner, utilizing, if appropriate, the old and new systems concurrently until the new system is effectively installed.

· Keep records up to date at all times, after the

new system has been installed.

• Strive for promptness in forwarding required information to other agencies, making possible early compilation of their reports and thus increasing the timeliness and usefulness of these reports.

Encourage all who have a stake in the information system—suppliers, collectors, processors, and users of the information—to evaluate

continuously its adequacy and effectiveness and to improve it from time to time.

Development of Records and Reports About Curriculum and Instruction

Instruction is the principal activity of the schools. However, while administrators frequently have a quantity of usable information available about the finances and pupils of their schools, they seldom have a comparable amount of useful information

about their instructional programs.

This handbook provides a means for describing selected aspects of curriculum and instruction within each of the several levels of organization for instruction, including the school system, individual school, the program of studies, self-contained class or course, cocurricular activity, section, and service activity. For each of these levels there are items or categories of information which may be used, as appropriate, to describe aspects of organization, administration, instructional content, instructional resources, and instructional processes. Table 6 shows where this information may be located in the handbook.

To illustrate the use of table 6, the ninth category of information is "Pupils served." All handbook items about types of pupils served are defined in chapter 4 beginning on page 80 and have the identification number 09. Chapter 3, with an outline of items appropriate for each level of organization, contains items about pupils served by a school (number 20900) on page 37, by a program of studies (number 30900) on page 44, by a given course (number 40900) on page 50, and by a given section of a course (number 50900) on page 57.

Among major handbook categories of information which can be used in describing curriculum and instruction at various levels of organization are the following (including their handbook identification numbers):

Itom

| | Item | |
|--|--------|-----|
| Items Describing a School System | number | - |
| Identification of school system | 1 02 0 | 00. |
| Type of school system | 1 02 4 | 11. |
| Control of school system | 1 02 5 | 60. |
| Span of compulsory attendance ages | 1 03 1 | 1. |
| Span of grades in school system | 1 03 2 | 21. |
| Approval status of school system | 1 05 1 | 0. |
| School system time schedule | 1 06 0 | 00. |
| Evaluation and curriculum improvement | 1 07 0 | 00. |
| School system services supporting instruc- | | |
| tion | 1 32 0 | 00. |
| Summary information about aspects of cur- | | |
| riculum and instruction in schools and their | | |
| programs of studies | | |
| Items Describing an Individual School | | |
| Identification of school | 2 02 0 | 00. |
| Type of school | 2 02 4 | 2. |
| Type of schoolSpan of grades in school | 2 03 2 | 21. |
| Accreditation and/or approval status | 2 05 0 | 00. |
| School time schedule | 2 06 0 | 00. |
| Evaluation and curriculum improvement | 2 07 0 | 0. |
| Evaluating and reporting pupil progress | 2 08 0 | 0. |
| Types of pupils served | 2 09 0 | 00. |
| Requirements for entrance into school | 2 10 1 | 0. |
| | | |



Table 6.—Broad categories of information by level of organization (with page references to chapters 3 and 4)

| » | | | Level of o | rganization | (chapter 3) | |
|--|--|----------------------------|------------------|------------------------------------|--|---|
| Category of information | Definition page No. (chapter 4) | 1XX00. School system | 2XX00. School | 3XX00. Program of studies | 4XX00. Self-con- tained class, course, or cocurricu- lar activity | 5XX00. Section or service activity |
| Organization administration: | | | | | | |
| 01—Specifications | 58 | 122-31-92-5 | W | | 48 | 5 |
| 02—Identification | 59 | 21 | 29 | 43 | 48 | 5 |
| 03—Placement (grades, years, ages) | 63 | 22 | 30 | 10 | 48 | 5 |
| 04—Level of difficulty/ability | 65 | | 00 | | 48 | 5 |
| 05—Approval/accreditation | 65 | 23 | 30 | 43 | 48 | |
| 06—Time elements | 66 | 23 | 31 | 43 | 49 | 5 |
| 07—Evaluating and curriculum improvement | 71 | 24 | 33 | 44 | 49 | 3 |
| 08—Evaluation and reporting pupil progress | 78 | 24 | 35 | 44 | 49 | 5 |
| 09—Pupils served | 80 | | 37 | 44 | 50 | 5 |
| 10—Entrance | 83 | | 37 | 45 | 50 | 5 |
| 11—Progress and promotion | 84 | | 37 | 43 | 30 | 3 |
| 19 Completion promotion | 84 | | 38 | | | |
| 12—Completion practices | 86 | 27 | 30 | 45 | 50 | 5 |
| 13—Instruction | 00 | 21 | | | | 5 |
| Instructional content: | 07 | | | 16 | | |
| 21—Subject matter | 87 | | | 46 | 51 | |
| 22—Treatment of content | 88 | | | | 51 | |
| 23—Instructional outcomes | 89 | | | 46 | 51 | 5 |
| Instructional resources: | 0.00 | | | | 225 | |
| 31—Staff members | 90 | | | | 52 | 5 |
| 32—Services supporting instruction | 90 | 27 | 39 | | | |
| 33—Community resources | 96 | 28 | 42 | | | |
| 34—Location of instruction | 96 | | 42 | 46 | 52 | 5 |
| 35—Facilities | 97 | | 42 | | 52 | 5 |
| 36—Equipment and supplies | 99 | | | 46 | 53 | |
| Instructional processes: | | | | 3.5 | 100 | |
| 41—Structure | 100 | | 42 | 46 | 54 | |
| 42-Medium of instruction | 101 | | | | 54 | 5 |
| 43—Methods of instruction | 101 | | | | 54 | 5 |
| 44—Other procedures for instruction | 102 | | | | 55 | |
| Summary information: | | | | | | |
| 51—Schools | 103 | 29 | | | | |
| 52—Facilities | 103 | 29 | | | | |
| 53—Programs of studies | 103 | 29 | 42 | | | |
| 54—Services supporting instruction | 103 | 29 | | 46 | | |
| 55—Pupil membership 56—Staff members | 104 | 29 | 42 | 47 | 55 | |
| 56—Staff members | 104 | 29 | 42 | 47 | 55 | |
| 57—Courses | 104 | | 42 | 47 | | |
| 58—Cocurricular activities | 105 | | 42 | 47 | | |
| 59—Sections | 105 | | 2000 | 2.1.2.2.2.7.3 | 55 | |
| Other information (99) | 105 | 29 | 42 | 47 | 55 | 5 |

Note.—The 2 numbers preceding headings under "category of information" provide the basis for locating items of information in chapter 4; inserting these two numbers in place of "XX" in the numbers under "level of organization" generates new numbers which are the basis for locating items in chapter 3.

| Requirements and recognition for graduation or completionSchool services supporting instruction | 2 12 00. | tivities, related services, and staff members involved | Item numbe | |
|---|----------|---|---------------|--|
| Summary information about aspects of curriculum and instruction in programs of studies, courses, and cocurricular activities provided by the school | | Identification information Grade or year placement Position in sequence of classes or courses Level of difficulty | 4 03 | 00. 52. |
| Items Describing a Program of Studies | | Time schedule | 4 06 | 00. |
| Identification of program of studies | 3 02 00. | Credit or noncredit | 4 08 | 20. |
| Type of program of studies | 3 02 43. | Pupils served | 4 09 | 00. |
| Type of occupational program | 3 21 43. | Requirements for entrance | 4 10 | 10. |
| Area(s) of major specialization | 3 21 41. | Required or elective | 4 10 | 20. |
| Area (s) of minor specialization. | | Requirements and recognition for successful | | |
| Accreditation and/or approval status | 3 05 00. | completion | 4 12 | 00. |
| Pupils served by program of studies | 3 09 00. | Subject matter | 4 21 | 00. |
| Requirements for entrance into program of | | Planned instructional outcomes | 4 23 | 00. |
| studies | 3 10 10. | Structure of course | | 00. |
| Requirements and recognition for successful | | Principal medium of instruction | | 00. |
| completion | 3 12 00. | Principal methods of instruction | | V. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| Summary information about courses in program of studies, related cocurricular ac- | | Summary information about sections, pupils, and staff members | | |



Table 7.—Illustrative descriptions of self-contained classes and courses utilizing items of information from instructional program handbook

| | 3 | (2) | (3) | (4) | (5) | (9) | ω |
|--|--|--|---|---|--|--|--|
| Type of school organizational arrangement. Type of program of studies | Elementary school 2 02 42.10 Typical elementary 3 02 43.11 Self-contained class | Elementary school 2 02 42.10 Special education for handicapped 3 02 43.20 Self-contained class | Junior high echool 2 02 42.31 Typical junior high school 3 02 43.13 Course | Senior high school 2 02 42.34 College preparatory 3 02 43.31 Advanced placement | Senior high school 2 02 42.34 Occupational 3 02 43.42 Vocational course | Public junior college 2 02 42.41 Transfer 3 02 43.51 Course | Adult education 2 02 42.50 Free selection 3 02 43.61 Course |
| Subject matter area | 4 02 45.10 Natural sciences 13.00 00 00 00 General science | 4 02 45.10 Handicapped pupils 19.00 00 00 00 Language | 4 02 45.20 Natural sciences 13.00 00 00 General science | course 4 02 45.22 Natural sciences 13.00 00 00 00 Chemistry | 4 02 45.21 Trade and indus- trial occupations 17.00 00 00 00 Automotive | 4 02 45.20 Natural sciences 13.00 00 00 00 Organic chemistry | 4 02 45.20 Business 03.00 00 00 00 Accounting |
| Planned instructional outcome | 13.01 00 00 00 General development in area Grade 6 4 23 00.11 Grade 6 2 03 21.06 Average difficulty | development 19.01 02 00 00 Skills in area 4 23 00.27 4th year 2 03 31.40 For mentally | 13.01 00 00 00 General development in area 4 23 00.11 Grade 8 2 03 21.08 Average difficulty | 13.03 01 00 00 Knowledge and understanding Grade 11 4 23 00.13 Above average | services Services Occupational competence 4 23 00.18 Grade 12 2 03 21.12 Average difficulty | Knowledge and understanding 4 23 00.13 Grade 13 Average difficulty | principles 03.01 00 00 Understanding of basic principles 4 23 00.31 Ungraded 2 33 21.30 Average difficulty |
| Pupils served by program of studies | 4 04 10.10 Normal range | retarded 4 04 10.40 Educable mentally | 4 04 10.10 Normal range | difficulty 4 04 10.20 Gifted in academic | 4 04 10.10 Normal range | 4 04 10.10 Normal range | 4 04 10.10 Adult age |
| Required or elective | 3 09 50.10 Required for all pupils | retarded 3 09 60.31 Required for pupils in program | 3 09 50.10 Required for all pupils | work 3 09 60.11 2 science units required for college preparatory | 3 09 50.10 Required in area of specialization | 3 09 50.10 Required for pre- medical program | 3 09 50.95 Elective for all pupils |
| Instruction: Principal medium | 4 10 20.10 Single teacher | 4 10 20.59 Single teacher | 4 10 20.10 Single teacher | Team of teachers | 4 10 20.60 On-the-job | 4 10 20.59 Single teacher | 4 10 20.70 Single teacher |
| Instruction: Principal methods | 4 42 11.10 Demonstration 4 43 00.02 Directed observation | 4 42 11.10 Discussion 4 43 00.05 Modeling and | 4 42 11.10 Demonstration 4 43 00.02 Directed observation | 4 42 11.20 Demonstration 4 43 00.02 Discussion | supervision Demonstration 4 43 00.02 Directed observation | 4 42 11.10 Demonstration 4 43 00.02 Discussion | 4 42 11.10 Demonstration 4 43 00.02 Discussion |
| | 4 43 00.04 Discussion 4 43 00.05 Field trip 4 43 00.10 | Practice 4 43 00.16 4 43 00.17 | 4 43 00.04 Discussion 4 43 00.05 Field trip 4 43 00.10 | Laboratory experience 4 43 00.12 | 4 43 00.04 Shopwork 4 43 00.24 | 4 43 00.05 Laboratory experience 4 43 00.12 Lecture 4 43 00.13 | Practice 4 43 00.05 4 43 00.17 |
| Instructional space | Regular classroom 4 35 20.11 Motion pictures 4 36 40.30 | Special space 4 35 20.26 Audio equipment 4 36 30.90 | Regular classroom Overhead projector 4 35 20.11 A 36 20.62 | Laboratory room Laboratory equipment 4 36 60.80 | 4th course 4 03 52.04 | Laboratory room 4 35 20.22 Laboratory equipment 4 36 60.80 lst course 4 03 52.01 | Regular classroom 4 35 20.11 Business supplies 4 36 60.20 1st course 4 03 52.01 |
| Number of courses in sequence | 150 minutes/week 4 08 13.03 36 weeks 4 06 88.06 | 36 weeks 4 06 88.06 School approved 2 05 10.10 Approved 4 05 10.10 | 200 minutes/week 4 08 13.04 36 weeks 4 06 88.06 Approved 4 05 10.10 | 300 minutes/week 36 weeks 4 08 13.06 High school accredited Approved 4 05 10.10 | 4 courses 4 03 51.04 900 minutes/week 18 weeks 18 weeks 4 06 88.04 High school accredited Approved 4 05 10.10 | 2 courses 4 03 51.02 350 minutes/week 4 08 13.06 17 weeks 4 06 88.04 College accredited 2 05 30.10 Approved 4 05 10.10 | 2 courses 4 03 51.02 270 minutes/week 4 08 13.05 18 weeks 4 06 88.04 |



A few detailed items of information have been selected to illustrate in table 7 the manner in which specific self-contained classes and courses may be described for various levels of organization. A description of a different class or course is included in each vertical column. For example, the combination of items in the third column describes a general science course in the eighth grade of a junior high school. If desired, such a description may be extended considerably, using the items of this handbook. Descriptions of items in boldface letters are included in chapters 5 and 6 while descriptions of the other items may be located in chapters 3 and 4; the identification numbers may be used to locate the terminology and definitions or descriptions in these chapters. Item

Items Describing a Cocurricular Activity

Identification information

Time schedule_____ Pupils served_____

| | | Iten uml | - |
|---|-----|-------------|-----|
| Requirements for entrance | _ 4 | 10 | 10 |
| Requirements and recognition for successfu | 1 | | |
| completion | 4 | 12 | 00 |
| Content of cocurricular activity | _ 4 | | 30 |
| Planned outcomes for pupils | 4 | 23 | 00 |
| Principal methods of instruction or direction. | 4 | 43 | 00 |
| Summary information about pupils and staf members involved | f | | 100 |
| Items Describing a Section | | | |
| Specifications for section | _ 5 | 01 | 00 |
| Section identification information | _ 5 | 02 | 00 |
| Time schedule for section | - 5 | 06 | 00 |
| Pupils scheduled into section | _ 5 | 09 | 00 |
| Teacher or other staff member assigned to | 0 | | |
| section | . 5 | 31 | 00 |
| Location of instruction | _ 5 | 34 | 00 |
| Instructional equipment and supplies | . 5 | 36 | 00 |
| Items Describing a Service Activity | | | |
| Specifications for service | _ 5 | 01 | 00 |
| Service identification information | - 5 | 02 | 00 |
| Time schedule for service | - 5 | 06 | 00 |
| Persons receiving service | _ 5 | | 00 |
| Staff member assigned to service | _ 5 | 31 | 00 |
| Location of service | _ 5 | 34 | 00. |
| Equipment and supplies | . 5 | 36 | 00 |

Table 8.—Illustrative portion of checklist indicating subject matter provided within a school system having elementary and secondary schools only

number

4 02 00.

4 04 20. 4 06 00.

4 09 00.

| Social Sciences/Social Studies | | Type of instru | ctional program ¹ | |
|---|------------------|--|------------------------------|-----------------|
| | Elementary | Secondary | Junior college | Adult education |
| History American History (including Canada, Latin America, and United States) Local History Modern History State History United States History Western Civilization Nonwestern History World Civilization World History Other History (specify) | X X X X | X X X X X X X X X X X X | | |
| Humanities Philosophy Ethics History of Philosophy Introduction to Philosophy Logic Metaphysics Philosophy of Religion Other Philosophy (specify) | X | | | |
| American Government Comparative Systems Contemporary World Affairs International Relations Political Parties and Public Opinion Political Socialization Political Theory Other Political Science (specify) | XX | X X X X X | | |
| Developmental Psychology Educational Psychology Etc | | | | |

¹ The insertion of an "X" following a subject-matter heading indicates that this aspect of subject matter is provided within the school system in the type of instructional program indicated.

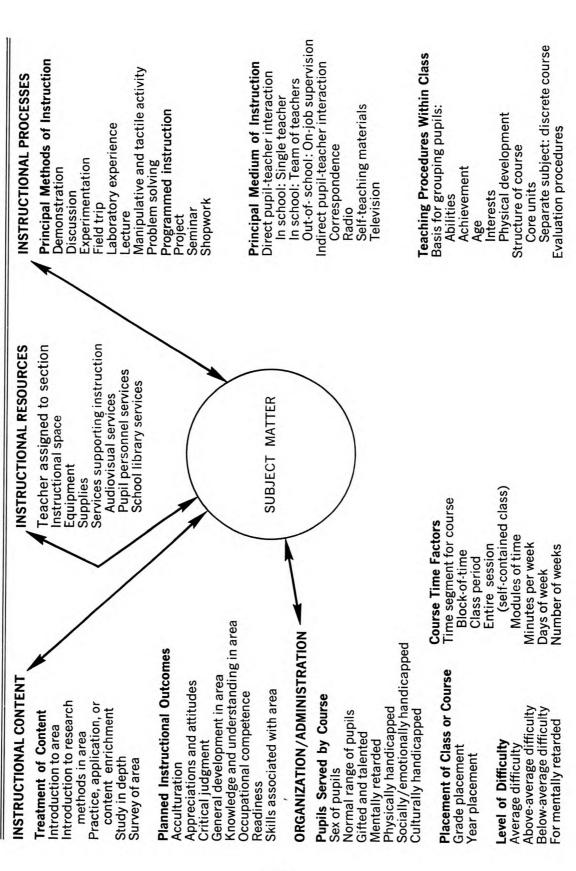




Table 9.—Illustrative portion of checklist indicating subject matter provided within an elementary school, grades K-8

| Social Sciences/Social Studies | Check "X" if provided | Or, indicate grade level |
|--|-----------------------|--------------------------|
| Anthropology | X | 8 |
| Archeology | X | 1 |
| Cultural Anthropology | X | 8 |
| Ethnography | | |
| Ethnology | | |
| Ethnoscience | | |
| Physical Anthropology | | |
| Other Anthropology (specify) | | |
| Area Studies (multidisciplinary) | | K-5, 7 |
| Areas beyond the United States | X | 5, 7 |
| Africa | | 1 |
| Asia | X | 7 |
| Australasia | X | 1 7 |
| Canada | | 1 5 |
| Europe | | 5 |
| Latin America | X | 1 5 |
| Middle East | X | 1 |
| Soviet | X | 1 7 |
| Other Areas Beyond the United States (specify) | | |
| Regions of the United States | X | 4 |
| Midwest | X | 4 |
| North Central | X | 4 |
| Northeast | | 4 |
| Northwest | X | 4 |
| Southeast | | 4 |
| Southwest | X | 4 |
| Other Regions of the United States (specify) | | |
| Small Areas | x | K-3 |
| Home State | X | 3, 4 |
| Local community | X | 1, 2 |
| School community | X | K-2 |
| Neighborhood | X | K, 1 |
| Other Small Area (specify) | | |
| Other area studies (specify) | | |
| Citizenship Education | X | K-8 |
| Conservation (Environmental Education) | X | 4, 7 |

Figure 2 provides an illustration of the close relationship that exists between "Items of Information About the Organization, Administration, Content, Resources, and Processes of Instruction" (classified in chapter 3 and defined or described in chapter 4), and "Items of Information About Subject Matter and Cocurricular Activities" (Classified in chapter 5 and defined or described in chapter 6).

Contemporary World Affairs, classified (as item number 15.11 03 00 00) in chapter 5 and described in chapter 6 in the Political Science category of the Social Sciences/Social Studies subject-matter area, may serve as an example for relating items of information from chapters 3 and 4 to an item about subject matter. The narrative description of Contemporary World Affairs, the "Subject Matter" in figure 2, may be enhanced by relating to it selected items from chapters 3 and 4, the peripheral items in figure 2, such as:

Treatment of content: survey of area (item 42200.05).

Planned instructional outcome: appreciations and attitudes (item 42300.02).

Pupils served by course: normal range of pupils (item

30950.10).

Grade placement: grade 12 (item 20321.12). Level of difficulty: average difficulty (item 40410.10). Time segment in daily session: single class period (item 40686.13).

Principal methods of instruction: discussion, lecture and seminar (items 44300.05, 44300.13, and 44300.23). Principal medium of instruction: direct pupil-teacher interaction—single teacher (item 44211.10).

Teaching procedures within class: basis for grouping pupils—interests; arrangement of course content—separate subject (items 44420.30 and 44110.10).

An overview of subject matter available throughout a school system may be indicated in the columns of the pages of chapter 5, as is illustrated in table 8 and described in the introduction to chapter 5 on page 107. This type of chart also may be used to describe instruction, provided by the school system central staff, which would be included under item 11310, Instruction on Systemwide Basis. An extension of this type of chart, as is illustrated in table 9, may be used to describe all the subject matter provided within a single school. Information on such charts for the various schools of a school system may provide the source of information used in completing the systemwide chart illustrated in table 8.

Relating Information About Curriculum and Instruction to Other Areas of Educational Information

For purposes of simplicity or convenience, information about education frequently is organized

into broad recordkeeping areas referred to by terms such as financial accounting, property accounting, staff accounting, and pupil accounting. In a total information system, all such areas are interrelated, or will be ultimately. These interrelationships are illustrated in figure 3.

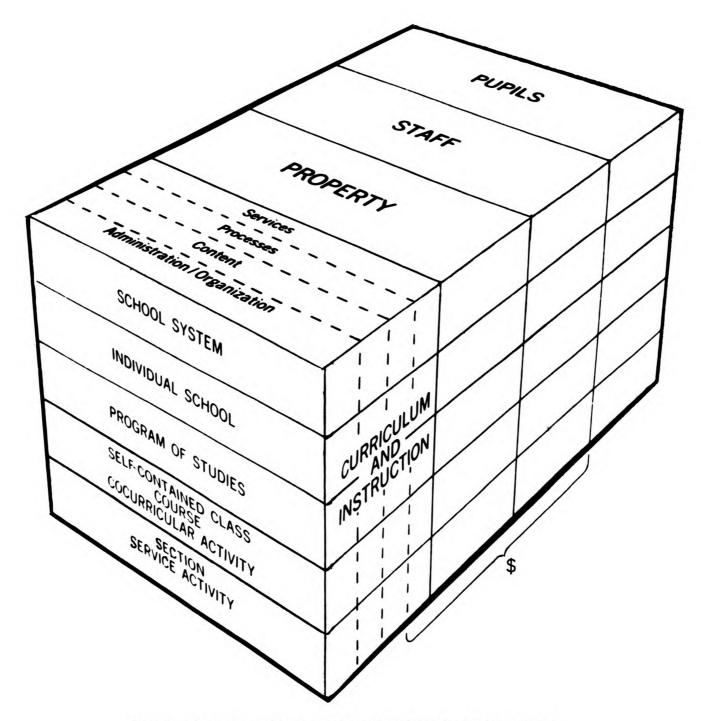


Figure 3. — Some interrelationships among areas of information about education

The top surface of the model in figure 3 indicates large blocks of information about pupils, staff, property, and the instructional program (curriculum and instruction). The block for curriculum and instruction is subdivided in this model into instructoinal processes, services, content, and administration/organization. The horizontal slices of the model indicate how specific organizational units-such as given school systems, schools, courses, cocurricular activities, and sections—are described in terms of information about the instructional program, property, staff, and pupils. Information about pupils, staff, property, and the instructional program thus is interrelated in describing specific organizational units.

Characteristics of property (that is-land, buildings, equipment, and supplies), staff members, and services may be described in terms of their cost or value, as is suggested by the dollar sign bracketing these areas in figure 3.

Curriculum and In-Measures Involving struction

As referred to in this handbook, a measure related to curriculum and instruction is any quantitative information about a school, school system, or other reporting unit (e.g., a type of self-contained class or course, an intermediate administrative unit, or a State) which concerns curriculum and instruction and frequently is related to one or more items of information about pupils, staff, property, finances, and time. Such measures describe the quantity or extent of given elements affecting an instructional program and are used for making comparisons among similar administrative units. Measures involving curriculum and instruction may be compared when they-

- are based on standardized items of information;
- apply to comparable administrative units (e.g.,

similar schools, school districts, intermediate adminsitrative units, or States);

- involve comparable time elements; and
- are computed by comparable processes.

Table 10 illustrates the manner in which items and areas of information might be interrelated as "measures" to describe an aspect of the operation of a single school. If desired, similar comparisons may be made for information about a school system, program of studies, self-contained class, course, cocurricular activity, section, or service activity. Though many of the items included in such measures are not defined in this handbook, they sometimes are used in making judgments about the adequacy or appropriateness of aspects of the instructional program.

Among measures involving curriculum and instruction are the following, many of which are described in the glossary. These numerous measures may be scanned in selecting those which might be useful for given purposes in given situations.

General Curriculum Measures Number of schools offering a given course. Percentage of schools offering a given course. Number of schools offering a given program of studies. Percentage of schools offering a given program of studies. Number of schools providing a given service. Percentage of schools providing a given service. Number of school systems providing a given service. Percentage of school systems providing a given service. Number of sections for given courses. Number of sections for given self-contained classes.

Pupil Measures Average daily attendance.

Average daily membership.

Average number of children per local basic administrative unit.

Average number of children per attendance area.

Average membership per school. Percentage of total excess public school membership. Percentage of pupils in nonpublic schools.

Number of pupils in system, school, program of studies, or course having given characteristics.

Table 10.—Some interrelationships among selected illustrative items of information pertaining to a 400-pupil elementary school

| Category of information | Property | | | | Staff | |
|---|---|---|-----------------------|---|---|--|
| Quantity and unit | A facility category (e.g., 1 elementary school) | An equipment category (e.g., 10 slide projectors) | Total supplies | A supply category (e.g., 2,500 textbooks) | An assignment category (e.g., 15 classroom teachers) ¹ | |
| Expenditure: Total Per unit Per pupil_ Per classroom teacher¹ | \$750,000 750,000 50,000 | \$800 80 2 53 | \$10,000 25 667 | \$9,000 4 23 600 | \$125,000 8,333 313 8,333 | |
| Units per pupilor Pupils per unit | 400 | 40 | | 6.3 | 26.7 | |
| Units per classroom teacher¹ or Classroom teachers¹ per unit | 15 | 1.5 | | 167 | | |

¹ Full-time equivalency of assignments.

Percentage of pupils in system, school, program of studies, or course having given characteristics.

Median age of pupils.

Percentage of exceptional children in special classes or

Percentage of total membership being provided appropriate special education.

Number of pupils enrolled in a given course.

Precentage of pupils participating in various activities. Percentage of a given pupil group (e.g., pupils in grade 11, or in an occupational program) enrolled in a given

Number of pupils enrolled in a given program of studies. Percentage of pupils enrolled in a given program of

Pupil membership in school system. Pupil membership by school level. Pupil membership in a given school. Pupil membership by grade.

Percentage of attendance.

Number of pupils completing a grade. Number of pupils completing high school.

Number of pupils graduating from high school, by type of program of studies.

Number of junior college graduates, by type of program of studies and by area of specialization.

Percentage of graduates in a given program of studies.

Percentage of graduates who had a given course.

Percentage of high school graduates who completed courses in given subject areas.

Percentage of pupils currently enrolled in courses in various subject areas.

Average class size, by grade of self-contained class. Average class size, by subject matter area of course.

Number of pupils completing a grade.

Percentage of pupils making normal progress.

Percentage of pupils promoted.

Number of pupils advanced at an accelerated rate. Number of pupils not promoted (or retained).

Percentage of pupils not promoted (or retained).

Pupil-Staff Measures

upil-teacher ratio.

Pupil-classroom teacher ratio.

Classroom teachers per 1,000 pupils in average daily membership.

Pupil-teacher ratio, by subject matter of course. Teachers per 1,000 pupils in average daily membership Teachers other than classroom teachers per 1,000 pupils in average daily membership.

Pupil-counselor ratio.

Pupil-school librarian ratio.

Pupil-nurse ratio.

Pupil-principal ratio.

Pupil-professional educational staff ratio.

Professional educational staff per 1,000 pupils in average daily membership.

Pupil-total staff ratio.

Staff Measures

Percentage of self-contained class sections taught by certified staff members.

Percentage of course sections taught by certified staff members (by subject matter).

Teacher-instructional supervisor ratio.

Percentage of schools having a certified librarian (by school level).

Percentage of classroom teachers having given characteristics.

Pupil-Property Measures

Pupils per acre.
Library books per pupil.
Pupil capacity of a school plant.
Excess membership in public schools.

Percentage of total excess public school membership.

Property Measures

Percentage of secondary schools having a language laboratory.

Percentage of course sections in foreign languages utilizing a language laboratory.

Percentage of physics (or chemistry) course sections utilizing a physics (or chemistry) laboratory.

Average number of self-contained classes per record

player.

Percentage of schools having a library (by school level). Number of schools having facilities for a given aspect of the instructional program.

Percentage of schools having facilities for a given aspect of the instructional program.

Number and percentage of schools having facilities which are inadequate for a given aspect of the instructional program.

Financial Measures

Current expenditures per pupil.

Current expenditures per pupil in ADA, by school level, by term.

Current expenditures per pupil in ADM, by school level,

Current expenditures per pupil per day (ADA) Current expenditures per pupil per day (ADM). Current expenditures per pupil per hour course meets (adult education).

Evaluation of Quality

The need arises at times for schools, school systems, accreditation associations, and other agencies to undertake an evaluation of the quality of the instructional program of a given school or school system. There are at least three types of evaluation, including (1) satisfying minimum or basic legal requirements, sometimes referred to as "approval," (2) determining the extent to which set standards of quality surpassing minimum legal requirements are met, sometimes referred to as "accreditation," and (3) determining the extent to which specified local needs and objectives are being met or have been met. In all three types the basis for evaluation or assessment is comprised of predetermined requirements, standards, or objectives to which actual performance is compared.1

The items presented in chapters 3 and 4 are quantitative in nature. They may be used to indicate whether or not given conditions exist within a school or school system; when totaled (as for pupils of a school or schools of a school system) they are an indication of the extent to which given conditions exist.

To make a judgment of quality, an evaluator must first ascertain whether or not a condition or practice exists and the extent to which it exists (the quantitative element mentioned above), and then apply a subjective value judgment as to the appropriateness, adequacy, and effectiveness of the condition or practice. This may be done by rating each condition or practice as "satisfactory" or "unsatisfactory"; "superior," "average," or "poor" (or "needs improvement"); or on a numerical continuum (for example, "0, 1, 2, 3, 4, 5") in which each rating is combined with other ratings of related conditions, perhaps with weightings for some ratings, for a total score.

The purposes of this handbook are limited to providing the means for identifying or describing selected practices and conditions, singly and in

¹ See also the introductions to the X0700 Series on p. 71 and to the X0500 Series on p. 65.

combination; any desired or required value judgments must be provided from some other source.

For purposes of evaluation of quality, the types of quantitative information included above as "measures" frequently are used in conjunction with the following types of information (many of which encompass items of chapter 4) in the statement of requirements, standards, or objectives as well as in the determination of the extent to which any such requirements, standards, or objectives have been satisfied or met:

 Location of school system (including region of the country and size, e.g., rural, village, town,

or large city

Characteristics of community (including occupational structure of community; educational level of parents; cooperation of schools with community agencies; community attitude toward schools; local problems, e.g., juvenile delinquency, civil rights, and unemployment; and community planning for improvement of housing, recreation, and health needs) (See item X0710.30 and the X3300 Series of chapter 4.)

Community resources (including the facilities, agencies, business, and persons outside the schools in the community that may be, or are, used by the schools for their educative values)

(See the X3300 Series.)

• Characteristics of school system (e.g., size, organization, and effectiveness of administration) (See the 10000 Series of chapter 3.)

Characteristics and needs of pupils (including the composition of pupil groups as indicated by numbers and proportions of pupils according to sex; age; race; range and median of mental ability; other psychological factors; physical factors; school placement; enrollments for a full or less than full course load; regularity of attendance; educational and career intentions; range of school performance; standardized test results; performance on nationwide scholarship examinations; scholarship awards; awards made on a regional basis; nonschool performance; postschool performance; and mobility or stability) (See item X0710.50 and the X0900 Series of chapter 4.)

• The curriculum itself (including, for illustration, adequacy of scope and sequence, comprehensiveness or variety of offerings, remedial work, introductory or survey courses, work-study courses, evening courses for dropouts, courses for postgraduates, depth of study in given subject matter as illustrated by advanced placement courses, cocurricular activities, indications of meaningful innovation and experimentation, nature of objectives for which provision is made, use of appropriate teaching processes such as team teaching and independent study, adequacy and effectiveness of services supporting instruction, and articulation between successive schools and with out-of-school agencies)

Characteristics of the instructional staff (e.g.,

number, preparation, experience, certification status, morale, assignments, and teaching load or pupil load) (See item X0752.10.)

 Services supporting instruction (including their nature, appropriateness, accessibility, adequacy, frequency of use, and effectiveness of management) (See item X0752.20 and the X3200 Series.)

• Facilities, including built-in equipment (considering, for example, quantities, adequacy, accessibility, and frequency of use) (See the

X3500 Series.)

 Movable equipment, including library books (considering, for example, their appropriateness, quantities, adequacy, accessibility, and frequency of use, and including the number of books in the library and the number added to the library during the preceding year) (See the X36000 Series.)

Supplies, including textbooks and films (considering, for example, their appropriateness, quantities, adequacy, and frequency of use, and including the number of periodical and newspaper subscriptions) (See the X3600

Series).

- Finances (including the sources of funds, extent of financial resources, assessed valuation per pupil, amount and proportion of budget appropriations for the instructional program as a whole and for various aspects of the instructional program, and the actual expenditures for the various budget items) (See Handbook II.)²
- Salaries and salary schedule (including the appropriateness and adequacy of the salary schedule for classroom teachers and for other categories of the instructional staff, and the distribution of classroom teachers according to selected salary categories)

· Evaluation and curriculum improvement ac-

tivities (See the X0700 Series.)

Use of Information About Curriculum and Instruction in Research and Experimentation

The widespread implementation of the items of information in this handbook will result in the availability of vast quantities of comparable information which might be utilized for research purposes. Information most valuable for all purposes becomes available when comparable information is used within the schools and is forwarded, as required, to other agencies such as local school systems, State education agencies, other State agencies and associations, the United States Office of Education, other Federal agencies, and national associations.

Although in the development of this handbook use of the classification system for research was not a primary concern, it may be noted that when



² Paul L. Reason and Alpheus L. White, Financial Accounting for Local and State School Systems: Standard Receipt and Expenditure Accounts. Washington: U.S. Government Printing Office, 1957. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook II, Bulletin 1957, No. 4.

quantities of comparable information are available in computer or other storage facilities, they may be tapped with comparative ease for making meaningful totals and for comparing different variables. The use of agreed-on handbook items in local school systems will aid in eliminating duplication of requests for information from different sources and save time in obtaining the needed information. These common items may serve as guides to researchers, providing some indication as to what items of information might be available and in what form. Use of these items will provide greater opportunity for meaningful research for various types of governmental agencies at all levels, nongovernmental organizations of various scopes of operation, organizations of school systems, foundations operating in the field of education, accrediting associations, and college and university personnel.

As an illustration of the possible use of these comparable items in experimentation, personnel of the local school system might test hypotheses about factors of significance in the learning process by identifying for given pupil groups, educational "input" items which vary (e.g., teacher qualifications, teacher personality, teaching methods, or-

ganization of classes, length and frequency of classes, variations in instructional content, and use of various instructional resources) to learn which of these factors have significant effect upon the educational "output" (as indicated by the performance of pupils in school, outside of school, and after leaving the school). Certain of these input items might be identified in this way as being "crucial," or as factors which significantly influence the quality of education. Needless to say, this illustration goes somewhat beyond current practice and well beyond the scope of the specifics or intent of this handbook.



An orientation to this handbook and uses to which its items of information may be put has been included in chapters 1 and 2. The next chapter includes a classification of items of information which may be used to describe aspects of the organization, administration, content, resources, and process of curriculum and instruction. These items are defined in chapter 4. Subject-matter areas are included in chapters 5 and 6.

Classification of Items of Information About Curriculum and Instruction

Items of information describing significant aspects of the organization, administration, content, resources, and processes of curriculum and instruction are classified in this chapter according to levels of organization and selected categories of information. They are identified by a numbering system which reflects these categories and are appropriate for all types of schools and school systems. Definitions of these items are found in chapter 4 on the pages indicated in this chapter under the column heading Definition Page Number. Items used to describe the subject matter of instructional programs are presented in chapters 5 and 6.

An Item of Information About Curriculum and Instruction: Definition

An item of information, as defined for use in this handbook, is a descriptive heading under which is recorded information about curriculum and instruction. This heading may be (a) a broad categorical heading with a structured set of subheadings; (b) a broad categorical heading without a structured set of subheadings, under which a specified type of information is recorded; or (c) a heading of limited scope under which specific information is recorded. These headings, and the entries under them, form the basis for records and reports about curriculum and instruction.

Little attempt is made to distinguish between those categories of information from which a *single* multiple-choice item should be selected for report purposes and those categories from which two *or more* items may be chosen; such a distinction should be included, however, on any form used for the collection of these items.

The items of this chapter reflect five levels of organization—(1) the school system as a whole; (2) an individual school; (3) a program of studies; (4) a general self-contained class, course, or cocurricular activity; and (5) a specific section or an instructional service activity. Information about the

smaller units of organization may be combined with other similar information to describe, in summary, aspects of larger units, e.g., information about a specific section of "Freshman English" may be combined with information about other similar sections in the school or throughout the school system. Items presented for smaller units of organization may be used to describe activities provided directly by the school system rather than by a school (e.g., a systemwide orchestra, or a special class in science meeting once a week for gifted fifthgraders).

The items are not intended to describe school board policy, but are intended to provide a means to reflect instructional practices at all levels within the local school system. These items may be used to indicate what is being done in the various classrooms and schools and may reflect, in this way, the *implementation* of policy.

Recommended and Optional Items

Information about instructional programs is essential for individual schools and school systems throughout the United States and its outlying areas. Those items of information which are basic and are therefore recommended as needed for operating most schools and local school systems are identified in this chapter by the designation "Rec." Those items of information which are important and may be collected and maintained at the option of individual schools and school systems are identified by the designation "Op." Additional items may be collected and maintained by individual schools and school systems at their own option as needed for their own purposes. Where a school system has a need to expand its system of information about curriculum and in-

¹ Assigned on the basis of consensus among representatives of groups participating in the development of this handbook (see p. vii), the designations "Rec" and "Op" identify items of information (not practices) considered most important for the sound operation of schools, and probably reflect to an extent the frequency of use of these items.

struction, the expansion should be done in such a way that any additional items of information are readily classifiable under the headings presented in this handbook.

The use of the designations "Rec" and "Op" is not intended to prescribe practice; it is intended to provide guidance to persons and groups establishing or reviewing their systems of information about curriculum and instruction.

Information According to Type of Instructional Program

Designations for the columns on the right-hand side of pages, beginning on page 29, are used to indicate the types of instructional programs to which specific items apply (i.e., elementary school instructional program, secondary school instructional program, instructional program for college credit, and adult education instructional program). The items of information on pages 21 to 29 refer to the entire school system and therefore are not identified with any such type of program.

Identification Numbers

The numbers appearing at the left of the items of information included in this chapter are for identification purposes, for locating items within the classification structure of the chapter.

The items are organized primarily on the basis

of level of organization, the first digit of the number representing the level.2 The second and third digits represent the major category of information, and provide the basis for the organization of items in chapter 4.3 The digits following represent subdivisions of these categories.

Those numbers without integers to the right of the decimal point serve to identify general categories of information. Many of these categories contain subdivisions which are quite specific.

Those identification numbers with integers to the right of the decimal point serve to identify items of information which are limited in scope and specific. Each item of this type appears with one or more related items under a categorical heading. Such items may be used either in combination or as alternatives, according to the information needs of the school or school system.

The numbering of broad categories and specific items can provide the foundation for a coding system. Those items having identification numbers with digits to the right of the decimal point are multiplechoice items and may be used with appropriate adaptations as a code in the processing, storage, retrieval, and transmission of items of information about curriculum and instruction. Such a code may be used by local and State school systems for both manual and automated methods of data processing.

ITEMS DESCRIBING A SCHOOL SYSTEM 10000 Series

A school system comprises all the schools and supporting services controlled by a board of education or by any other organization which operates one or more schools. Items of information included in the 10000 Series may be used to describe those aspects of curriculum and instruction of a school system that (a) are centrally administered and are systemwide in scope, (b) involve all schools of the system having a given type of instructional program, or (c) involve a portion of the school system which is larger than one school but less than all schools having a given type of instructional program.

In those instances in which a program of studies, course, or cocurricular activity is organized centrally for qualified pupils of more than one school of the school system, items of information may be drawn as appropriate from the 20000, 30000, 40000, and 50000 Series—or from chapter 6—and included in the 11310 Series.

A school system comprised of a single school is identified under item 10260.50; items of information which can be used to describe practices within such a school are included in the 20000 Series.

| Classification of items of information | | Definition page No. | Recommended or optional |
|--|---|---------------------|-------------------------|
| 1 02 00. | IDENTIFICATION OF SCHOOL SYSTEM | 59 | |
| 1 02 11. | School system name | 59 | Rec |
| 1 02 21. | Standard school system number or code | | Rec |
| 1 02 31. | School system location | 59 | Op |
| 1 02 41. | Type of school system | 59 59 59 | • |
| 1 02 41.10 | State department of educationOther State education agencyIntermediate administrative unit | 59 | Rec |
| 1 02 41.20 | Other State education agency | 59 | Rec |
| 1 02 41.30 | Intermediate administrative unit | 59 | Rec |
| 1 02 41.40 | Local public school system | 60 | Rec |

²1 = school system; 2 = school; 3 = program of studies; 4 = self-contained class, course or cocurricular activity; 5 = section, or instructional service activity.

³ These major categories are outlined on p. 4 and p. 10.

| | Classification of items of information | Definition page No. | Recommend or optiona |
|---------------------------|--|---------------------|---|
| SCHOOL SY | STEM—Continued | | |
| 00 41 41 | Description and appropriate and achord | 60 | Dag |
| 02 41.41 | Does not operate any school | 60 | Rec Rec |
| 02 41.42 | Operates area school for special education only | 60 | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 02 41.43 | Operates a single one-teacher school. | 60 | Rec Rec |
| $02 \ 41.44$ $02 \ 41.51$ | Operates elementary school(s) | 60 | Rec |
| 02 41.51 | Operates middle school(s) | 60 | Rec |
| 02 41.53 | Operates secondary school(s) | 60 | Rec |
| 02 41.54 | Operates junior college | 60 | Rec |
| 02 41.55 | Provides adult education | 60 | Rec |
| 02 41.59 | Operates other type of school | 60 | Rec |
| 02 41.60 | Segment of local public school system | 60 | Rec |
| | Nonpublic school system | 60 | Rec |
| | Other unit | 60 | Rec |
| 02 50. Co | ontrol of school system | 62 | |
| 02 51. | Public control | 62 | |
| 02 51.10 | Local education agency | 62 | Rec |
| 02 51.20 | City or municipal government | 62 | Rec |
| 02 51.30 | Township government | 62 | Rec |
| 02 51.40 | County government | 62 | Rec |
| 02 51.50 | Other local public agency | 62 | Rec |
| 02 51.60 | State government | 62 | Rec |
| 02 51.70 | Federal government | 62 | Rec |
| 02 51.80 | Combination | 62 | Rec |
| 02 51.90 | Other public agency | 63 | Rec |
| 02 52. | Nonpublic control | 63 | |
| 02 52.10 | Independent of church, nonprofit | 63 | Rec |
| 02 52.20 | Religious group | 63 | Rec |
| 02 52.30 | Proprietary | 63 | Rec |
| | Combined public and nonpublic control | 63 63 | Rec |
| 02 54.10 | College or university | 63 | Rec |
| 02 54.90 | Other institution | 63 | Rec |
| | Other control | 63 | Rec |
| 02 60. Sc | ope of central administration | 63 | |
| 02 60.10 | Central administration for entire system | 63 | Rec |
| | Administration for geographic areas | 63 | Rec |
| | Central administration for given level or type of school | 63 | Rec |
| | Autonomous schools | 63 | Rec |
| 02 60.50 | Single school | 63 | Rec |
| 02 60.90 | Other administrative arrangement | 63 | Rec |
| 03 00. SI | PAN OF AGES AND GRADES IN SCHOOL SYSTEM | 63 | |
| 03 11. Sp | oan of compulsory attendance ages | 64 | |
| 03 11.05 | 5 years old | 64 | Rec |
| 03 11.06 | 6 years old | 64 | Rec |
| 03 11.07 | 7 years old | 64 | Rec |
| 03 11.08 | 8 years old | 64 | Rec |
| 03 11.09 | 9 years old | 64 | Rec |
| | 10 years old | 64 | Rec |
| 03 11.11 | 11 years old | 64 | Rec |
| 03 11.12 | 12 years old | 64 | Rec |
| 03 11.13 03 11.14 | 13 years old | 64 64 | Rec Rec |
| | 15 years old | 64 | Rec |
| | 16 years old | 64 | Rec |
| | 17 years old | 64 | Rec |
| 03 11.18 | 18 years old | 64 | Rec |
| 03 11.19 | 19 years old | 64 | Rec |
| 03 11.20 | 20 years old | 64 | Rec |
| 03 11.21 | 21 years old | 64 | Rec |
| 03 11.30 | Over 21 years old | 64 | Rec |
| 03 11.40 | No compulsory education requirement | 64 | Rec |
| 03 11.50 | No permissive attendance provision | 64 | Rec |
| | | 64 | Rec |



| | Classification of items of information | | Recommended or optional |
|--------------------------|---|------------|-------------------------|
| 1 SCHOOL | SYSTEM—Continued | | |
| 1 03 12. | Span of permissive attendance ages | 64 | Rec |
| 1 03 21. | Lowest and highest grades in school system | 64 | Rec |
| 1 05 00. | APPROVAL OF SCHOOL SYSTEM | 65 | |
| 1 05 10. | Approval status | 66 | |
| 1 05 10.10 | Approved | 66 | Rec |
| 1 05 10.20 1 05 10.30 | Warning or probation | 66 66 | Rec Rec |
| 05 10.40 | Application in process | 66 | Rec |
| 1 05 10.50 | Approval not requested | 66 | Rec |
| 1 05 10.60 | Approval not available | 66 | Rec |
| 1 05 20. | Approving agency | 66 | |
| 1 05 20.10 | State department of education | 66 | Rec |
| 1 05 20.20 | Other State agency | 66 | Rec |
| 1 05 20.90 | Other agency | 66 | Rec |
| 1 06 00. | SCHOOL SYSTEM TIME SCHEDULE | 66 | |
| 1 06 10. | School year | 66 | |
| 1 06 11. | Division of school year | 66 | |
| 1 06 11.10 | Regular school term and summer school term | 66 | Rec |
| 1 06 11.20 | Regular school term only | 66 | Rec |
| 1 06 11.30 | Three trimesters | 66 | Rec |
| 06 11.40 | Four quarters | 66 | Rec |
| 1 06 11.80 1 06 11.90 | Combination Other division | 66 67 | Rec Rec |
| | | | nec |
| 1 06 20. | Regular school term | 67 | |
| 1 06 21. 1 06 22. | Division of regular school termCalendar months in regular school term | 67 67 | Ор |
| 1 06 22.01 | 1 month or less | 67 | Op |
| 1 06 22.02 | 2 months | 67 | Op |
| 1 06 22.03 | 3 months | 67 | Op |
| 1 06 22.04 | 4 to 6 months | 67 | Op |
| 1 06 22.05 1 06 22.06 | 7 months | 67 | Op |
| 1 06 22.06 | 8 months | 67 67 | Op Op |
| 1 06 22.08 | 10 months | 67 | Op |
| 1 06 22.09 | 11 or 12 months | 67 | Op |
| 1 06 23. | Equivalent weeks in regular school term | 67 | Op |
| 1 06 23.09 | Less than 30 weeks | 67 | Op |
| 1 06 23.30 | 30 weeks | 67 | Op |
| 1 06 23.31 1 06 23.32 | 31 weeks32 weeks | 67 67 | Op Op |
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| 1 06 23.34 | 34 weeks | 67 | $\ddot{\mathrm{Op}}$ |
| 1 06 23.35 | 35 weeks | 67 | Op |
| 06 23.36 | 36 weeks | 67 | Op |
| 06 23.37 06 23.38 | 37 weeks | 67 67 | Op |
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| 06 23.40 | 40 weeks | 67 | Op |
| 1 06 23.41 | 41 weeks | 67 | Op |
| 1 06 23.42 | 42 weeks | 67 | Op |
| 1 06 23.43 1 06 23.44 | 43 weeks44 weeks | 67 67 | Op |
| 1 06 23.44 | More than 44 weeks | 67 | Op Op |
| 1 06 24. | Days in session in regular school term | 67 | |
| 1 06 24.01 | Less than 160 days | 67 | Rec |
| 1 06 24.02 | 160-169 days | 67 | Rec |



| | | Classification of items of information | Definition page No. | Recommend or optiona |
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| 1 | 06 24.03 | 170-174 days | 67 | Rec |
| _ | 06 24.04 | 175-179 days | 67 | Rec |
| | 06 24.05 | 180-184 days | 67 | Rec |
| | 06 24.06 | 185-189 days | 67 | Rec |
| | 06 24.07 | 190-199 days | 67 | Rec |
| | 06 24.08 | 200-209 days | 67 | Rec |
| . 1 | 06 24.09 | More than 209 days | 67 | Rec |
| | 06 30. | Summer school term | 67 | |
| | 06 32. 06 33. | Calendar months in summer school termCalendar weeks in summer school term | 67 67 | Op Op |
| | 06 33.02 | Less than 3 weeks | 67 | Op |
| | 06 33.03 | 3 weeks | 67 | Op |
| | 06 33.04 | 4 weeks | 67 | Op |
| | 06 33.05 | 5 weeks | 67 | Op |
| | 06 33.06 | 6 weeks | 67 | Op |
| | 06 33.07 | 7 weeks | 67 | Op |
| | 06 33.08 | 8 weeks | 67 67 | Op |
| | 06 33.09 06 33.01 | 9 weeks More than 9 weeks | 67 | Op Op |
| | 06 34. | Days in session in summer school term | 67 | |
| | 06 34.01 | Less than 11 days | 67 | Rec |
| | 06 34.02 | 11-20 days | 67 | Rec |
| | 06 34.03 | 21-25 days | 67 | Rec |
| | 06 34.04 | 26–30 days | 67 | Rec |
| | 06 34.05 | 31-35 days | 67 | Rec |
| | 06 34.06 | 36-40 days | 67 | Rec |
| | 06 34.07 | 41–50 days | 67 | Rec |
| | 06 34.08 06 34.09 | 51–60 days More than 60 days | 67 67 | Rec Rec |
| | 06 90. | Other time elements | 71 | Op |
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| L | 07 10.11 | Philosophy of the school system | 71 | Rec |
| | 07 10.13 | Aims of the school system | 71 | Rec |
| | 07 10.21 | School system policies | 71 | Rec |
| | 07 10.30 | Characteristics of the community | 71 | Rec |
| | 07 10.40 07 10.50 | School system-community relationsCharacteristics and needs of pupils | 72 72 | Rec Rec |
| | 07 10.51 | Scholastic aptitude | 72 | Ор |
| | 07 10.52 | Exceptionality | 72 | Op |
| | 07 10.53 | School placement | 72 | Op |
| | 07 10.54 | Educational and career intentions | 72 | Op |
| | 07 10.55 | School performance | 72 | Op |
| | 07 10.56 | Nonschool performance | 72 | Op |
| | 07 10.57 | Postschool performance | 72 | Op |
| L | 07 10.58 | Mobility/stability | 72 | Op |
| | 07 10.59 07 10.69 | Pupil needsOther characteristics and needs | 72 73 | Op Op |
| - | 07 10.09 | Provisions for curriculum improvement. | 73 | Rec |
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| 1 | 07 10.00 | Other background considerations | 73 | Op |
| 1 | 07 10.90 | Organization for evaluation and for curriculum improvement | 73 | |
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| 07 30.31 Central instructional staff | 73 | Op |
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| 07 40. Evaluation procedures | 74 | |
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| 07 42.10 Observation | 74 | Op |
| 07 42.20 Interview | 74 | Op |
| 07 42.30 Standardized test 07 42.40 Teacher-made objective test | 74 74 | Op Op |
| 07 42.50 Survey instrument | 74 | Op |
| 07 42.60 Cooperatively developed criteria | 74 | Op |
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| 07 51.30 Cocurricular activities | 75 | Op |
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| 07 51.41 Articulation between successive schools | 75 | Op |
| 07 51.42 Articulation between successive years or grades | 75 | Op |
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| 07 52.13 Certification status | 75 75 | Op |
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| 07 52.16 Numerical adequacy of staffing | 75 75 | Op Op |
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| 07 52.19 Other characteristics of staff | 75 | Op |
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| 1 32 11. | School library services | 90 | Op |
| 1 32 11. | Audiovisual services | 91 | Op |
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| 1 32 14. | Provisions for supplies | 91 | Op |
| 1 32 19. | Other resource services for pupils | 91 | Op |
| 1 32 20. | Pupil personnel services | 91 | Rec |
| 1 32 21. | Guidance services | 91 | Rec |
| 1 32 21.10 | Counseling with pupils | 91 | Rec |
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| 1 32 35.20 | Assistance in understanding pupils | 94 | Op |
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| 32 36.03 | Conference | 94 | Op |
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| 32 36.05 | Demonstration | 94 | Op |
| 32 36.06 | Staff meetings | 94 | Op |
| 32 36.07 | Committee project | 94 | Op |
| 32 36.08 | Group study activity | 94 | Op |
| 32 36.09 | Helping-teacher services | 95 | Op |
| 32 36.10 | Television program for inservice education | 95 | Op |
| 32 36.11 | School visit | 95 | Op |
| 32 36.12 | Payment of expenses to professional meetings | 95 | Op |
| 32 36.13 | College course Payment of tuition | 95 | Op |
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| 32 36.15 | Sabbatical leave | 95 | Op |
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| 32 39. | Other services for instructional staff | 95 | Op |
| 32 40. | Research and statistical services | 95 | Op |
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| 32 70. | Community services | 96 | Rec |
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| 32 70.08 | Library service to public | 96 | Op |
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| 32 70.23 | Health and welfare agencies | 96 | Op |
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| 32 70.29 | Other agencies | 96 | Op |
| 32 70.90 | Other community services | 96 | Op |
| 32 81. | Food services | 96 | Op |
| 32 82. | Pupil transportation services | 96 | Op |
| 32 82.10 | Transportation between home and school | 96 | Op |
| 32 82.20 | Field trips related to school activities | 96 | Op |
| 32 82.90 | Other pupil transportation services | 96 | Op |
| 32 90. | Other services supporting instruction | 96. | Op |
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| 1 52 10. | FACILITIES WITHIN SCHOOL SYSTEM (SUMMARY INFORMATION) | 103 | Op |
| 1 53 10. | PROGRAMS OF STUDIES WITHIN SCHOOL SYSTEM (SUMMARY INFORMATION) | 103 | Op |
| 1 54 10. | SCHOOL SERVICES SUPPORTING INSTRUCTION WITHIN SCHOOL SYSTEM (SUMMARY INFORMATION) | 103 | Op |
| 1 55 10. | PUPIL MEMBERSHIP WITHIN SCHOOL SYSTEM (SUMMARY INFORMATION) | 104 | Rec |
| 1 56 10. | INSTRUCTIONAL STAFF MEMBERS WITHIN SCHOOL SYSTEM (SUMMARY INFORMATION) | 104 | Rec |
| 1 99 00. | OTHER INFORMATION ABOUT SCHOOL SYSTEM | 105 | Op |

ITEMS DESCRIBING A SCHOOL 20000 Series

A school is a division of the school system consisting of pupils comprising one or more grade groups or other identifiable groupings, organized as one unit with one or more teachers to give instruction of a defined type, and housed in a school plant of one or more buildings. Items of information included in the 20000 Series may be used to describe aspects of cur-

riculum and instruction within an individual school, including situations in which a single school comprises the entire school system or an entire level of organization of a school system.

Items of information used in describing the details of individual programs of studies are not included here but are included in the 30000 Series; those describing individual self-contained classes, courses, or cocurricular activities are in the 40000 Series; and those used in scheduling sections and service activities are included in the 50000 Series.

| | | Definition | T | pe of instruc | ctional progra | m |
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| 2 02 21. | Standard school number or code | 59 | Rec | Rec | Rec | Rec |
| 2 02 22. | Local number or code | 59 | Rec | Rec | Rec | Rec |
| 2 02 31. | Geographical location of school | 59 | Op | Op | Op | Op |
| 2 02 42. | Type of school organizational arrangement | 60 | r | o P | o P | op |
| 2 02 42.10 | Elementary school | 60 | Rec | | | |
| 2 02 42.11 | Preprimary levelPrimary level | 60 | Rec | | | |
| 2 02 42.12 | Primary level | 60 | Op | | | |
| 2 02 42.13 | Intermediate elementary level | 60 | Op | | | |
| 2 02 42.14 | Upper elementary level | 60 | Op | | | |
| 2 02 42.20 | Middle school | 60 | Rec ⁴ | Rec ⁴ | | |
| 2 02 42.30 | Secondary school | 60 | 135.0 | | | |
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| 2 02 42.32 | 5- or 6-year high school | 60 | | Rec | | |
| 2 02 42.33 | Junior-senior high school | 60 | | Rec | | |
| 2 02 42.34 | Senior high school | 60 | | Rec | | |
| 2 02 42.35 | | 60 | | Rec | | |
| 2 02 42.39 | Other secondary school | 60 | | Rec | | |
| 2 02 42.40 | Junior college | 61 | | | Rec | |
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| 2 02 42.42 | Nonpublic junior college | 61 | | | Rec | |
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⁴ Recommended for middle school instructional program.



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| 102 51. Public control 62 Rec | 02 42.90 | Other school | 61 | Rec | Rec | Rec | Rec |
| 02 52. Nonpublic control. | 02 50. C | ontrol of school | 62 | | | | |
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| 03 31.80 8th year 65 Rec | | | | | | | |
| 03 31.90 9th year and above 65 Rec Rec Rec 03 40. Other placement 65 Rec Rec Rec Rec 05 00. ACCREDITATION AND/OR APPROVAL OF SCHOOL 65 65 65 8c | 03 31.80 | 8th year | 65 | Rec | Rec | | |
| 05 00. ACCREDITATION AND/OR APPROVAL OF SCHOOL | | | 65 | Rec | Rec | | |
| 05 00. ACCREDITATION AND/OR APPROVAL OF SCHOOL | 03 40. O | ther placement | 65 | Rec | Rec | Rec | Rec |
| SCHOOL | | | | | | | - A-0-3-1 |
| 07 10 A | 05 00. A | | 65 | | | | |
| III APPROVOLETOTIS IN INC. KAO KAO | 05 10. A | pproval status | 66 | Rec | Rec | Rec | Rec |



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| pproving agency | 66 66 66 66 66 66 | Rec Rec Rec Rec | Rec Rec | Rec | Rec |
| Accreditation status Accredited Warning or probation Accreditation denied Application in process Accreditation not requested Accreditation not available ccrediting agency State department of education Regional accrediting association | 66 66 66 66 66 66 | Rec Rec Rec Rec | Rec Rec | Rec | Rec |
| Warning or probation Accreditation denied Application in process Accreditation not requested Accreditation not available ccrediting agency State department of education Regional accrediting association | 66 66 66 66 66 | Rec Rec Rec | Rec | | |
| Accreditation denied Application in process Accreditation not requested Accreditation not available ccrediting agency State department of education Regional accrediting association | 66 66 66 66 | Rec Rec | | D | Rec |
| Application in process Accreditation not requested Accreditation not available ccrediting agency State department of education Regional accrediting association | 66 66 66 | Rec | Rec | Rec | Rec |
| Accreditation not requested Accreditation not available ccrediting agency State department of education Regional accrediting association | 66 66 | | | Rec | Rec |
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| State department of educationRegional accrediting association | | Rec | Rec | Rec | Rec Rec |
| Regional accrediting association | 66 | | | | |
| Regional accrediting association | 66 | Rec | Rec | Rec | Rec |
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| | 66 | Rec | Rec | Rec | Rec |
| CHOOL TIME SCHEDULE | 66 | | | | |
| ivision of school year | 66 | Rec | Rec | Rec | Rec |
| egular school term | 67 | | | 100 | , and |
| Division of regular school term | 67 | | | | |
| Single term | 67 | Rec | Rec | Rec | Rec |
| Semesters | 67 | | Rec | Rec | Rec |
| TrimestersOuarters | 67 67 | | | Rec | Rec |
| Other division | 67 | Rec | Rec | Rec Rec | Rec Rec |
| Calendar months in regular school term | 67 | Ор | Op | Ор | Op |
| Equivalent weeks in regular school term | 67 | Op | $\mathbf{\tilde{O}_{P}^{P}}$ | Ŏр Ор | Op |
| Days in session in regular school term | 67 | Rec | Rec | Op | Op |
| ımmer school term | 67 | | | | |
| Calendar months in summer school term | 67 | Op | Op | Op | Op |
| Calendar weeks in summer school term | 67 | Op | Op | Op | Op |
| Days in session in summer school term | 67 | Op | Op | Op | Op |
| hool day | 67 | | | | |
| Sessions in school day | 68 | | | | |
| Single (1) session | 68 | Rec | Rec | | |
| Double (2) sessions | 68 | Rec | Rec | | |
| 2 overlapping sessions | 68 68 | Rec | Rec | | |
| 3 or more overlapping sessionsOther organization | 68 | Rec Rec | Rec Rec | | |
| Minutes in school day | 68 | | | | |
| Less than 240 minutes | 68 | Ор | Op | Ор | On |
| 240 to 269 minutes | 68 | $\breve{\mathbf{O}}_{\mathbf{p}}^{\mathbf{p}}$ | Op Op | Op Op | Op Op |
| 270 to 299 minutes | 68 | Op | Op | Op | $\tilde{\mathbf{O}}_{\mathbf{p}}^{\mathbf{p}}$ |
| 300 to 329 minutes | 68 | Op | Op | Op | Op |
| 360 to 419 minutes | 68 68 | Op Op | Op Op | Op On | Op |
| 420 to 479 minutes | 68 | Ŏp | | | Op Op |
| 480 to 539 minutes | 68 | Op | Op | Op | Op |
| 540 minutes and more | | Op | Op | Op | Op |
| aily session | | | | | |
| Type of session | | | | | |
| Full-day session | 68 | Rec | Rec | | |
| | | | Rag | | |
| | 68 | Rec | Rec | | |
| Other type of session | 68 | | 1 | | |
| ail; Ty | 420 to 479 minutes | 420 to 479 minutes 68 480 to 539 minutes 68 540 minutes and more 98 y session 68 ope of session 68 Full-day session 68 Half-day session 68 Curtailed session 68 Other type of session 68 | 420 to 479 minutes 68 Op 480 to 539 minutes 68 Op 540 minutes and more 98 Op y session 68 vpe of session 68 Full-day session 68 Half-day session 68 Curtailed session 68 Other type of session 68 Rec Other type of session 68 | 420 to 479 minutes 68 Op O | 420 to 479 minutes 68 Op O |



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| 2 06 52.10 | Entire session (self-contained class) | 68 | Rec | Rec | | |
| 06 52.20 | Partially departmentalized session | 68 | Rec | Rec | | |
| 06 52.30 | Uniform class periods | 68 | | Rec | | |
| 06 50 01 | C' 1 '- 1 | 60 | | 0- | | |
| 06 52.31 | Single period Multiple periods (block of time) | 68 68 | | Op Op | | 100,000,000,000,000,000,000,000 |
| 06 52.32 06 52.33 | Combination of single and multiple periods | 68 | | Op | | |
| 00 02.00 | Community of Single and Single Property | | | r | | |
| 06 52.40 | Nonuniform class periods | 68 | | Rec | | |
| 06 52.50 | Modules of time | 68 | Rec | Rec | | |
| 06 52.60 | Combination of class periods and modules | 68 | Rec | Rec | | |
| 06 52.70 | Homeroom periodActivity and/or assembly period | 68 69 | | Rec Rec | | |
| 06 52.80 06 52.90 | Other organization | 69 | | Rec | | |
| | | | | rece | | |
| 06 55. | Minutes in session | 69 | | | | |
| 06 55.01 | Less than 180 minutes | 69 | Rec | Rec | | |
| 06 55.02 | 180 to 239 minutes | 69 | Rec | Rec | | |
| 06 55.03 | 240 to 299 minutes | 69 | Rec Rec | Rec | | |
| 06 55.04 | 300 to 359 minutes 360 to 389 minutes | 69 69 | Rec | Rec Rec | | |
| 06 55.05 06 55.06 | 390 to 419 minutes | 69 | Rec | Rec | | |
| 06 55.07 | 420 to 449 minutes | 69 | Rec | Rec | | A CONTRACTOR OF THE PARTY OF TH |
| 06 55.08 | 450 to 479 minutes | 69 | Rec | Rec | | and the second s |
| 06 55.09 | 480 minutes and more | 69 | Rec | Rec | | |
| 06 56. | Minutes of instruction in session | 69 | Rec | Rec | | |
| 06 60. | Class period | 69 | | | | |
| 06 65. | Minutes in class period | 69 | | | | |
| 06 65.01 | Less than 40 minutes | 69 | | Rec | Rec | |
| 06 65.02 | 40 to 44 minutes | 69 | | Rec | Rec | |
| 06 65.03 | 45 to 49 minutes | 69 | | Rec | Rec | |
| 06 65.04 | 50 to 54 minutes | 69 | | Rec | Rec | |
| 06 65.05 | 55 to 59 minutes | 69 69 | | Rec Rec | Rec Rec | |
| 06 65.06 | 65 to 74 minutes | 69 | | Rec | Rec | |
| 06 65.08 | 75 to 94 minutes | 69 | | Rec | Rec | 110000000 |
| 06 65.09 | 95 minutes and more | 69 | | Rec | Rec | |
| 2 06 66. | Number of class periods in typical daily session | 69 | 11 11 | | | |
| 06 66.02 | 1 or 2 class periods | 69 | | Rec | Rec | |
| 06 66.03 | 3 class periods | 69 | | Rec | Rec | |
| 06 66.04 | 4 class periods | 69 | | Rec | Rec | |
| 06 66.05 | 5 class periods6 class periods | 69 69 | | Rec Rec | Rec Rec | |
| 06 66.06 06 66.07 | 7 class periods | 69 | | Rec | Rec | |
| 06 66.08 | 8 class periods | 69 | | Rec | Rec | |
| 06 66.09 | 9 or more class periods | 69 | | Rec | Rec | |
| 06 66.01 | Irregular number of class periods | 69 | | Rec | Rec | |
| 06 67. | Number of class periods in typical week | 69 | | Rec | Rec | |
| 06 70. | Module of time | 69 | | | | |
| 06 71. | Variation in modules | 69 | | | | h |
| 06 71.10 | No variation | 69 60 | | Rec | | |
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| 2 06 75. | Minutes in module | 69 | | | | |
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| 06 75.02 06 75.03 | 10 and 11 minutes. | 69 69 | | Rec | | |
| | 12 to 14 minutes | 109 | I was a second or a second or | Rec | I had been an included an include an in- | A Section of the Control of the Cont |



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| 06 | 75 04 | 15 to 19 minutes | 69 | | Rec | Carrier 1 | |
| | 75.04 75.05 | 20 to 29 minutes | 69 | | Rec | | |
| | 75.06 | 30 minutes and more | 69 | | Rec | | |
| | 76. | Number of modules in typical daily session | 69 | | rec | | |
| | | | | | | | |
| | 76.01 | Less than 5 modules | 69 | | Rec | | |
| | 76.02 | 5 to 7 modules | 69 | | Rec | | |
| | 76.03 | 8 to 10 modules 11 to 13 modules | 69 69 | | Rec Rec | | |
| | 76.04 | 14 to 16 modules | 69 | | Rec | | |
| | 76.06 | 17 to 19 modules | 69 | | Rec | | |
| | 76.07 | 20 to 22 modules | 69 | | Rec | | |
| | 76.08 | 23 to 25 modules | 69 | | Rec | | |
| | 76.09 | 26 modules and more | 69 | | Rec | | |
| . 00 | .0.07 | 20 modulo una moro | 0) | | 1100 | | |
| | 77. 78. | Number of modules in typical weekUsual number of modules per day for unit of value | 69 69 | | Rec | | |
| 06 | 70 02 | 2 modules | 70 | | Rec | | |
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| | 78.05 | 5 modules | 70 | | Rec | | |
| | 78.06 | 6 modules | 70 | | Rec | | |
| | 78.07 | 7 modules | 70 | | Rec | | The state of the s |
| | 78.08 | 8 modules | 70 | | Rec | | and the second second |
| | 78.09 | 9 modules | 70 | | Rec | | |
| 2 06 | 78.01 | More than 9 modules | 70 | | Rec | | |
| 2 06 | 90. | Other time elements | 71 | Op | Op | Op | Op |
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| 2 07 | 10. | Background of the instructional program | 71 | | | | |
| 2 07 | 10.11 | Philosophy of the school system | 71 | Op | Op | Op | Op |
| - | 10.12 | Philosophy of the school | 71 | $\widetilde{\mathbf{Op}}$ | Op | Op | $\widetilde{\mathrm{Op}}$ |
| | 10.13 | Aims of the school system | 71 | Op | Op | Op | Op |
| | 10.14 | Aims and objectives of the school | 71 | Op | Op | Op | Op |
| | 10.21 | School system policies | 71 | Op | Op | Op | Op |
| 07 | 10.22 | Rules and regulations of school | 71 | Op | Op | Op | Op |
| | 10.30 | Characteristics of the school community | 71 | Rec | Rec | Rec | Rec |
| 2 07 | 10.31 | General type of community | 71 | Op | Op | Op | Op |
| | 10.32 | Composition of population | 71 | Op | Op | Op | Op |
| | 10.33 | Occupational structure of school community | 71 | Op | Op | Op | . Op |
| 07 | 10.34 | Educational level of parents | 72 | Op | Op | Op | Op |
| | 10.35 | Problems of the school community | 72 | Op | Op | Op | Op |
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| | 10.40 | School-community relations | 72 | Rec | Rec | Rec | Rec |
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| | 10.42 | School-community planning | 72 | Op | Op | Ŏp | Op Op |
| | 10.43 | Home-school relations | 72 | Op | Op | Op | Op. |
| | 10.44 | Participation of parents in school activities and | | | 10.3 | | 153 |
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| 2 07 | 10.50 | Characteristics and needs of the pupils | 72 | Rec | Rec | Rec | Rec |
| | 10.51 | Scholastic aptitude | 72 | Op | Op | Op | Op |
| | 10.52 | Exceptionality | 72 | Rec | Rec | Rec | Rec |
| | 10.53 | School placement Educational and career intentions | 72 | Op | Op | Op | Op |
| | 10.54 | Educational and career intentions | 72 | Op | Op | Op | Op |
| | 10.55 | School performance | 72 | Op | Op | Op | Op |
| | 10.56 | Nonschool performance Postschool performance | 72 72 | Op Op | Op Op | Op Op | Op Op |
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| 07 10.62 07 10.69 | Pupil-staff relationsOther characteristics and needs | 73 73 | Op Op | Op Op | Op Op | Op Op |
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| | provement | 73 | Op | Op | Op | Op |
| 07 30. | Persons or groups involved in evaluation and/or curriculum improvement | 73 | Op | Op | Op | Op |
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| 07 52.30 | Administration | 76 | Rec | Rec | Rec | Rec |
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| 2 0 | 7 55. | Factors evaluated in instructional services | 77 | | | | |
| 2 0 | 7 55.10 | Characteristics of the staff | 77 | Op | Op | Op | Op |
| | 7 55.20 | Nature of service provided | 77 | Op | Op | Op | Op |
| | 7 55.30 | Resource utilization | 77 | Op | Op | Op | Op |
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| 2 0 | 7 60. 7 70. | Curriculum improvement activityScope of curriculum improvement activity | 77 77 | Op Op | Op Op | Op | Op |
| 2 0 | 1 10. | Scope of curriculum improvement activity | 4.4 | ОР | Op | Op | Op |
| 2 0 | 7 71. | Span of levels, grades, and years | 77 | Op | Op | Op | Op |
| | 7 72. | Scope of content | 78 | Op | Op | Op | Op |
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| | 7 80. | Content of reproduced materials | 78 | Op | Op | Op | Op |
| 2 0 | 7 90. | Other aspects of evaluation and curriculum im- | 78 | Op | Op | Op | Op |
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| 2 0 | B 12. | Class periods or modules per week per unit of value_ | 78 | | | | |
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| | $\frac{8}{8} \frac{12.01}{12.02}$ | 1 class period 2 or 3 class periods | 78 78 | | Rec Rec | Rec Rec | Op Op |
| | 8 12.02 | 4 class periods | 78 | | Rec | Rec | Op |
| | B 12.04 | 5 class periods | 78 | | Rec | Rec | Op |
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| | 3 12.06 | 8 or 9 class periods | 78 | | Rec | Rec | Op |
| | 3 12.07 | 10 to 13 class periods | 78 | | Rec | Rec | Op |
| 2 0 | 3 12.08 | 14 to 16 class periods | 78 | | Rec | Rec | Op |
| | 812.09 | 17 class periods and over | 78 | | Rec | Rec | Op |
| | 3 12.11 | 8 or fewer modules | 78 | | Rec | Rec | Op |
| | 3 12.12 | 9 or 10 modules | 78 | | Rec | Rec | Op |
| | 3 12.13 | 11 or 12 modules | 78 78 | | Rec | Rec | Op |
| | 3 12.14 3 12.15 | 13 to 15 modules 16 modules | 78 78 | | Rec Rec | Rec Rec | Op Op |
| | 3 12.15 | 17 to 20 modules | 78 | | Rec | Rec | Op |
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| | 3 12.19 | 30 or more modules | 78 | | Rec | Rec | Op |
| 2 0 | 3 13. | Minutes per week per unit of value | 79 | | | | |
| 9 0 | 19 01 | Loga than 60 minutes | 79 | | Rec | Rec | Op |
| | $3.13.01 \\ 3.13.02$ | Less than 60 minutes 60 to 119 minutes | 79 | | Rec | Rec | Op |
| | 3 13.03 | 120 to 179 minutes | 79 | | Rec | Rec | Op |
| | 3 13.04 | 180 to 239 minutes | 79 | | Rec | Rec | Op |
| | 3 13.05 | 240 to 299 minutes | 79 | | Rec | Rec | Op |
| | 3 13.06 | 300 to 359 minutes | 79 | | Rec | Rec | Op |
| | 3 13.07 | 360 to 479 minutes | 79 70 | | Rec | Rec | Op |
| | 3 13.08 | 480 to 599 minutes 600 minutes and more | 79 79 | | Rec Rec | Rec | Op |
| 2 0 | 3 13.09 | ood minutes and more | 13 | | nec | Rec | Op |
| 2 0 | 3 14. | Portion of regular school term for unit of value | 79 | | | N () | |
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| 2 08 15.30 | Units of value vary among courses | 79 | | Op | | |
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| 2 08 30.40 | Standard words or phrases | 79 | Op | Op | Op | Op |
| 2 08 30.50 | Percentages | 79 | Op | Op | Op | Op |
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| 2 08 40.10 | Mark value does not vary | 79 | | Op | | C |
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| 2 08 50.11 | 1 report | 79 | Op | Op | | |
| 2 08 50.12 | 2 reports | 79 | Op | Op | | |
| 2 08 50.13 | 3 reports | 79 | Op | Op | | |
| 2 08 50.14 | 4 reports | 79 | Op | Op | | |
| 2 08 50.15 | 5 reports | 79 | Op | Op | | |
| 2 08 50.16 | 6 reports | 79 | Op | Op | | |
| 2 08 50.18 | 8 reports | | Op | Op | | |
| 2 08 50.17 | Other number of reports | 79 | Op | Op | | |
| 2 08 50.19 | As required | 79 | Op | Op | | |
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| 2 08 71.30 | Every marking period | 80 | | Op | | |
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| 2 08 81.20 | Once in subdivision of regular school term | 80 | | Op | A CONTRACTOR OF THE PROPERTY O | | |
| 2 08 81.30 | Every marking period | 80 | | Op | | | |
| 2 08 81.40 | Once every marking period and semester or | 00 | | | | | |
| 2 08 81.80 | quarter Other frequency | 80 80 | | Op Op | | | |
| 2 08 81.90 | Honor roll not prepared | 80 | | Op | | | |
| 2 09 00. | PUPILS SERVED | 80 | 1 | -1 | | 100000000 | |
| | | 80 | | | | | |
| 2 09 10. | Number of pupils served | | | 2 | 12 X | - | |
| 2 09 11. | Fall membership of school | 80 | Rec | Rec | Rec | Rec | |
| 2 09 12. | Full-time pupils | 80 80 | | | Rec Rec | Op | |
| 2 09 13. 2 09 14. | Part-time pupils | 80 | | | Op | Op Op | |
| | | | | | 1270 | | |
| 2 09 20. | Basis for selection or grouping | 80 | Rec | Rec | Rec | Rec | |
| 2 09 20.10 | Unselected grouping | 80 80 | Rec Rec | Rec Rec | Rec Rec | Rec Rec | |
| 2 09 20.20 | Selected grouping | 00 | nec | nec | nec | nec | |
| 2 09 30. | Sex of pupils | 80 | | | | | |
| 2 09 30.10 | Both males and females | 80 | | | | | |
| 2 09 30.11 2 09 30.12 | Coordinate | 81 81 | Rec Rec | Rec Rec | Rec Rec | Rec Rec | |
| 2 09 30.20 2 09 30.30 | Males onlyFemales only | 81 81 | Rec Rec | Rec Rec | Rec Rec | Rec Rec | |
| 2 09 40. | Pupil background | 81 | | | | | |
| 0 00 41 | Race | 81 | Op | Op | Op | On | |
| $egin{array}{cccccccccccccccccccccccccccccccccccc$ | Ethnic origin | 81 | Op | Op | ОР | Op Op | |
| 2 09 43. | Religion | 81 | ŎP | $\tilde{\text{Op}}$ | Op | $\breve{\mathrm{Op}}$ | |
| 2 09 44. | Socioeconomic background | 81 | Op | Op | - r | Op | |
| 2 09 45. | Cultural handicaps | 81 | Op | Op | | Op | |
| 2 09 49. | Other background factors | 81 | Op | Op | Op | Ор | |
| 2 09 50. | Pupils within the normal range of ability and per- | 122 | 2. | | | 2 | |
| 0 00 60 | formance follows for the following formance | 81 | Rec | Rec | Rec | Rec | |
| 2 09 60. | Pupils outside the normal range of ability and per- formance | 82 | Rec | Rec | Rec | Rec | |
| 2 10 00. | ENTRANCE INTO SCHOOL | 83 | Rec | Rec | Rec | Rec | |
| 2 10 10. | Requirements for entrance into school | 83 | | | | | |
| 2 10 10.01 | Location of residence | 83 | Op | Op | On | Op | |
| 2 10 10.01 | Achievement in schoolwork | 83 | ОР | Op | Op Op | Op | |
| 2 10 10.05 | Age | 83 | Op | Op | Op | Op | |
| 2 10 10.06 | Court commitment | 83 | Op | Op | | Op | |
| 2 10 10.09 | Grade or year standing | 83 | D | Op | Op | D | |
| 2 10 10.11 2 10 10.12 | Payment of tuition Recommendation of psychologist | 83 83 | Rec Rec | Rec Rec | Rec | Rec | |
| 2 10 10.12 | Recommendation of teachers, counselor, and/or | UU | nec | TICC | | | |
| | principal | 83 | | Rec | Rec | lles/a | |
| 2 10 10.14 | Special pupil ability, aptitude, or interest | 83 | Op | Op | Op | Op | |
| 2 10 10.15 2 10 10.16 | Special pupil need | 83 | Rec | Rec | | | |
| 2 10 10.10 | other test | 83 | | Op | Op | Op | |
| 2 10 10.99 | Other requirements and procedures | 83 | Rec | Rec | Op | Op | |
| 2 10 30. | Orientation practices | 84 | Op | Op | Op | Op | |
| 2 11 00. | PROGRESS AND PROMOTION PRACTICES OF | | | | | | |



| | Classification of items of information | Definition | T | ype of instru | ctional progr | am |
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| | Classification of Items of Information | page No. | Elementary | Secondary | Junior college | Adult education |
| 2 SCHOOL | Continued | | | | | |
| 2 11 10. | Type of promotion practice | 84 | | | | |
| 2 11 10.10 | Regular promotion | 84 | Op | Op | | |
| 11 10.20 | Accelerated promotion | 84 | Op | | | |
| 2 11 10.30 | Continuous promotion | 84 | Op | | | |
| 11 10.40 | Nonpromotion Probationary promotion | 84 84 | Op Op | | | |
| 11 10.50 | Variable progress | 84 | Op | | | |
| 11 10.90 | Other type of promotion | 84 | Op | | | |
| 2 11 20. | Bases for promotion | 84 | | | | |
| 2 11 20.10 | Achievement | 84 | Op | Op | | |
| 2 11 20.20 | Chronological age | 84 | Op | Op | | |
| 2 11 20.30 | Intellectual development | 84 | Op | Op | | |
| 2 11 20.40 | Social maturity Time in class | 84 84 | Op Op | Op Op | | |
| 2 11 20.50 2 11 20.90 | Other basis | 84 | Op | Op | | |
| 2 11 20.90 | Other Basis | | o _P | o P | | |
| 2 11 30. | Promotion period | 84 | | | | |
| 2 11 30.10 | Annual | 84 | Op | Op | Op | |
| 2 11 30.20 | Semiannual | 84 | Op | Op | Op | |
| 2 11 30.30 2 11 30.90 | Flexible Other period | 84 84 | Op Op | Op Op | Op | |
| 2 11 30.90 | GRADUATION AND OTHER TERMINATION | | ОР | ОР | р | |
| . 63.41 | PRACTICES OF SCHOOL | 84 | | | | |
| 2 12 10. | Requirements for graduation | 84 | | | | 0.5 |
| 2 12 10 . 10 | Completion of minimum number of units of value | 85 | | Rec | Rec | Rec |
| 2 12 10.20 | General performance or achievement in schoolwork | 85 | | Rec | Rec | Rec |
| 2 12 10.30 | Equivalency examination | 85 85 | Op | Rec | | Rec |
| 2 12 10.40 2 12 10.50 | Age Duration of time | 85 | Op | Op Op | | |
| 2 12 10.30 2 12 10.90 | Other requirements | 85 | | Rec | Rec | Rec |
| 2 12 21. | Recognition for graduation | 85 | | | | |
| 2 12 21.10 | High school diploma | 85 | | Rec | | Rec |
| 2 12 21.11 | Uniform high school diploma | 85 85 | | Rec Rec | | Rec Rec |
| 2 12 21.12 | Differentiated high school diplomas | | | Nec | | nec |
| 2 12 21.20 | Certificate of high school equivalency | 85 | | Rec | | Rec |
| 2 12 21.30 | Certificate of completion | 85 85 | Rec | Rec Rec | Rec | Rec Rec |
| 2 12 21.40 2 12 21.50 | Associate degree | 85 | | nec | Rec | nec |
| 2 12 21.50 | Other certificate or degree | 85 | | Rec | Rec | Rec |
| 2 12 21.70 | Promotion to next school | 85 | Rec | Rec | Rec | |
| 2 12 21.80 | No recognition | 85 | Rec | Rec | | Rec |
| 2 12 21.90 | Other recognition | 85 | Rec | Rec | Rec | Rec |
| 2 12 30. | Other termination practices Type of practice | 86 86 | | | | |
| 2 12 31. | | | | 0 | | 1 |
| 2 12 31.10 | Expulsion: unsatisfactory achievement | 86 86 | Op Op | Op Op | | |
| 2 12 31.20 2 12 31.30 | Expulsion: unsatisfactory behavior Legal exclusion | 86 | Op | Op | | |
| 2 12 31.40 | Probation | 86 | Op | Op | | The second secon |
| 2 12 31.50 | Recommended transfer or other withdrawal | 86 | Op | Op | | |
| 2 12 31.60 | Suspension | 86 | Op | Op | | |
| 2 12 31.90 | Other practice | 86 | Op | Op | | |
| 2 12 32. | Reason for terminating membership | 86 | | | | |
| 2 12 32.10 | Underage | 86 | Op | Op | | |
| 2 12 32.20 | Overage | 86 | Op | Op | | |



| | | Definition | Т | pe of instru | ctional progra | am |
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| | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education |
| 2 SCHOOL- | -Continued | | | | | |
| 2 12 32.30 | Behavioral difficulty | 86 | Op | Op | | |
| 2 12 32.40 | Mental illness | 86 | Op | Op | | Contract of the Contract of th |
| 2 12 32.50 | Mental retardation | 86 | Op | Op | The second second second second | |
| 2 12 32.60 2 12 32.90 | Physical condition Other reason | 86 86 | Op Op | Op Op | | |
| 2 32 00. | SCHOOL SERVICES SUPPORTING INSTRUCTION | 90 | | | | |
| 2 32 10. | Resource services for pupils | 90 | | | | |
| 2 32 11. | School library services | 90 | Rec | Rec | Rec | Rec |
| 2 32 11.10 2 32 11.30 | Circulation servicesIndividual guidance in selection of books and | 91 | Op | Op | Op | Op |
| | materials | 91 | Op | Op | Op | Op |
| 2 32 11.40 | Instruction in use of library | 91 | Op | Op | Op | Op |
| $2 \ 32 \ 11.70$ $2 \ 32 \ 11.80$ | Reference materials and services | 91 | Op | Op | Op | Op |
| 2 32 11.00 | terials for use by pupils | 91 | Op | Op | Op | Op |
| 2 32 11.90 | Other school library services | 91 | Op | Op | Op | Op |
| 2 32 12. | Audiovisual services | 91 | Rec | Rec | Rec | Rec |
| 2 32 12.10 2 32 12.30 | Circulation services Individual guidance in selection and use of ma- | 91 | Op | Op | Op | Op |
| _ 0_ 100 | terials | 91 | Op | Op | Op | Op |
| 2 32 12.51 | Materials and services for listening | 91 | Op | Op | Op | Op |
| 2 32 12.52 | Materials and services for viewing | 91 | Op | Op | Op | Op |
| 2 32 12.60 2 32 12.80 | Production servicesSelection, acquisition, and preparation of ma- | 91 | Op | Op | Op | Op |
| 2 32 12.90 | terials for pupilsOther audiovisual services | 91 91 | Op Op | Op Op | Op Op | Op Op |
| 2 32 13. | Provisions for textbooks | 91 | Rec | Rec | Rec | Rec |
| 2 32 13.10 | Free loan plan | 91 | Op | Op | Op | Op |
| 2 32 13.20 | Rental plan | 91 | Op | Op | Op | $\tilde{\mathrm{Op}}$ |
| 2 32 13.30 | Purchase plan | 91 | Op | Op | Op | Op |
| 2 32 13.40 | Combination of plans | 91 | Op | Op | Op | Op |
| 2 32 13.90 | Other plan | 91 | Op | Op | Op | Op |
| 2 32 14. 2 32 19. | Provisions for suppliesOther resource services for pupils | 91 91 | Op Op | Op Op | Op Op | Op Op |
| | Pupil personnel services | 91 | 1 | • | | |
| 2 32 21. | Guidance services | 91 | Rec | Rec | Rec | Rec |
| 2 32 21.10 | Counseling with pupils | 91 | Rec | Rec | Rec | Rec |
| | | 91 | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Educational counseling Career counseling | 91 | Op Op | Op Op | Op Op | Op Op |
| 2 32 21.12 | Personal/social counseling | 91 | Op | Op | Op | Op |
| 2 32 21.20 | Counseling with parents | 91 | Rec | Rec | Rec | Op |
| 2 32 21.30 | Consultant service to staff members | 91 | Rec | Rec | Rec | Rec |
| 2 32 21.31 | Assistance with individual pupils | 91 | Op | Op | Op | Op |
| 2 32 21.32 2 32 21.33 | Inservice education on guidance services Program development for guidance services | 91 92 | Op Op | Op Op | Op Op | Op Op |
| 2 32 21.33 2 32 21.39 | Other consultant services | 92 | Op | Op | Op Op | Op Op |
| 2 32 21.40 | Pupil appraisal services | 92 | Rec | Rec | Rec | Rec |
| 2 32 21.50 | Information service | 92 | Rec | Rec | Rec | Rec |
| 2 32 21.51 | Educational information | 92 | Op | Op | Op | Op |
| 2 32 21.52 | Occupational information | 92 92 | Op | Op | Op | Op |
| 2 32 21.53 | Personal and social information | 94 | Op | Op | Op | Op |



| | Classification of items of information | Definition | | pe of instruc | tional progr | nai program | |
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| 2 SCHOOL—C | Continued | | | | | | |
| 2 32 21.60 | Maintenance and interpretation of cumulative records of individual pupils | 92 | Rec | Rec | Rec | Rec | |
| 2 32 21.61 | Home and family background | 92 | Ор | Ор | Ор | Ор | |
| 2 32 21.62 | Physical and medical status | 92 | Op | Op | Op | Op | |
| 32 21.63 | Standardized test results | 92 | Op | Op | Op | Op | |
| 2 32 21.64 | Personal and social development | 92 | Op | Op | Op | Op | |
| 2 32 21.65 2 32 21.69 | School performanceOther factors | 92 92 | Op Op | Op Op | Op Op | Op Op | |
| 2 32 21.70 | Placement services | 92 | Ор | Ор | ОР | Ор | |
| | | | | D | | _ | |
| 2 32 21.71 2 32 21.72 | Educational placement serviceOccupational placement service | 92 92 | | Rec Rec | Rec Rec | Rec Rec | |
| 2 32 21.81 | Followup and evaluation services | 92 | Rec | Rec | Rec | Rec | |
| 2 32 21.82 | Financial aid service | 92 | | Rec | Rec | Rec | |
| 2 32 21.91 | Referral for additional guidance services | 92 | Rec | Rec | Rec | Rec | |
| 2 32 21.99 | Other guidance services | 92 | Rec | Rec | Rec | Rec | |
| 2 32 22. | Health services | 92 | Rec | Rec | Rec | Rec | |
| 2 32 22.01 | Compilation, maintenance, and use of pupil | | | | | | |
| 2 32 22.10 | health records Health appraisal | 92 92 | Op Op | Op Op | Op Op | Op Op | |
| | | 00 | | | 3.5 | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | Vision screening Hearing screening | 92 92 | Op Op | Op Op | Op Op | Op Op | |
| 2 32 22.12 | Periodic physical examinations | 92 | Op | Op | Op | Op | |
| 2 32 22.14 | Tuberculosis testing | 92 | Op | Op | Op | Op | |
| 2 32 22.19 | Other screening and laboratory testing practices | 92 | Op | Op | Op | Op | |
| 2 32 22.21 | Nurse services | 92 | Op | Op | Op | Op | |
| 2 32 22.22 | Provision of care of emergency illness and injury | 92 | Op | Op | Op | Op | |
| 2 32 22.30 2 32 22.40 | Inservice education on health services Health counseling for individual pupils | 92 92 | Op Op | Op Op | Op Op | Op Op | |
| 2 32 22.50 | Communications to parents about health prob- | 92 | ОР | Ор | ОР | Op . | |
| | lems of pupils | 92 | Op | Op | Op | Op | |
| 2 32 22.60 | Dental services | 92 | Op | Op | Op | Op | |
| 2 32 22.61 | Dental screening | 92 | Op | Op | Op | Op | |
| 2 32 22.62 2 32 22.69 | Dental careOther dental services | 92 92 | Op Op | Op Op | Op Op | Op Op | |
| 2 32 22.70 | Psychiatric services | 92 | Op | Ор | Ор | Ор | |
| 2 32 22.81 | Immunization program | 92 | Op | Op | Op | Op | |
| 2 32 22.82 2 32 22.83 | Prevention and control of communicable diseases - Adjusting programs to health needs of individual | 92 | Op | Op | Op | Op | |
| | pupils | 92 | Op | Op | Op | Op | |
| 2 32 22.84 | Promoting a healthful school environment. | 92 92 | Op | Op | Op | Op | |
| 2 32 22.85 2 32 22.86 | Food program for needy childrenReferral for diagnosis or treatment | 92 | Op Op | Op Op | Op Op | Op Op | |
| 2 32 22.90 | Other health services | 93 | ${ m Op}$ | ор Ор | ŏ _p | $\tilde{\mathrm{Op}}$ | |
| 2 32 23. | School psychological services | 93 | Rec | Rec | Rec | Rec | |
| 2 32 23.10 | Administering psychological tests | 93 | Op | Ор | Ор | Op | |
| 2 32 23.20 | Interpreting results of psychological testing | 93 | Op | Op | Op | Op | |
| 2 32 23.30 | Psychological counseling | 93 | Op | Op | Op | Op | |
| 2 32 23.40 2 32 23.50 | Psychotherapy | 93 93 | Op Op | Op Op | Op Op | Op Op | |
| 2 32 23.60 | Referral of pupils for further clinical diagnosis or | | 135 | | | | |
| 2 32 23.90 | treatmentOther psychological services | 93 93 | Op Op | Op Op | Op Op | Op Op | |
| | Speech pathology and audiology services | 93 | Ор | Ор | Op | Op | |
| | | 02 | | | | | |
| 2 32 24.10 | Speech pathology services | 93 93 | Op Op | Op Op | Op Op | Op Op | |
| 2 32 24.20 | Audiology services | 90 | Op | Op | Op | Op | |



| | | Definition | | ctional program | | |
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| 2 32 25. | School attendance and social work services | 93 | Rec | Rec | Rec | Rec |
| 2 32 25.10 2 32 25.20 | Attendance servicesSchool social work services | 93 93 | Rec Rec | Rec Rec | Rec | Rec |
| 2 32 29. | Other pupil personnel services | 93 | Rec | Rec | Rec | Rec |
| 2 32 30. | Services for instructional staff | 93 | | | | |
| 2 32 31. | School library services | 93 | Rec | Rec | Rec | Rec |
| 2 32 31.10 2 32 31.20 | Circulation materials and services | 94 94 | Op Op | Op Op | Op Op | Op Op |
| 2 32 31.30 | Guidance in selection of books and materials | 94 | Op | $\breve{\mathbf{O}}_{\mathbf{p}}^{\mathbf{p}}$ | $\widetilde{\mathrm{Op}}$ | Op |
| 2 32 31.70 | Reference materials and services | 94 | Ŏp | $\breve{\mathrm{Op}}^{\mathrm{P}}$ | $\widetilde{\mathrm{Op}}$ | Op |
| 2 32 31.80 | Selection, acquisition, and preparation of ma- | | | | | |
| 2 32 31.90 | terials for use by instructional staff Other library services | 94 94 | Op Op | Op Op | Op Op | Op Op |
| 2 32 32. | Audiovisual services | 94 | Rec | Rec | Rec | Rec |
| 2 32 32.10 | Circulation services | 94 | Op | Op | Op | Op |
| 2 32 32.20 | Consultant service and inservice education for instructional staff | 94 | On | 0- | 0 | 0 |
| 2 32 32.51 | Materials and services for listening | 94 | Op Op | Op Op | Op Op | Op Op |
| 2 32 32.52 | Materials and services for viewing | 94 | Op | $\mathbf{\widetilde{O}_{p}^{P}}$ | Op | Op |
| 2 32 32.60 2 32 32.80 | Production servicesSelection, acquisition, and preparation of ma- | 94 | Op | Op | Op | Op |
| _ 0_ 000 | terials for use by instructional staff | 94 | Op | Op | Op | Op |
| 2 32 32.90 | Other audiovisual services | 94 | Op | Op | Op | Op |
| 2 32 33. | Curriculum laboratory | 94 | Op | Op | Op | Op |
| 2 32 34. | Other resource services | 94 | Op | Op | Op | Op |
| 2 32 35. 2 32 36. | Instructional supervision servicesProvisions for inservice education | 94 94 | Rec Rec | Rec Rec | Rec Rec | Rec Rec |
| 2 32 36.01 | Workshop | 94 | Op | Ор | Ор | Op |
| 2 32 36.01 | Staff meetings | 94 | Op | Op | Op | Op |
| 2 32 36.07 | Committee project | 94 | Op | Op | $\breve{\mathrm{Op}}$ | Op |
| 2 32 36.08 | Group study activity | 94 | Op | Op | Op | Op |
| 2 32 36.09 | Helping teacher services | 95 | Op | Op | Op | Op |
| 2 32 36.90 | Other provisions for inservice education | 95 | Op | Op | Op | Op |
| 2 32 39. | Other services for instructional staff | 95 | Rec | Rec | Rec | Rec |
| 2 32 40. | Research and statistical services | 95 | Op | Op | Op | Op |
| 2 32 50. | Data processing services | 95 | Op | Op | Op | Op |
| 2 32 60. | Information services | 96 | Op | Op | Op | Op |
| 2 32 70. | Community services | 96 | Rec | Rec | Rec | Rec |
| 2 32 70.01 | After school activities for pupils | 96 | Op | Op | | |
| 2 32 70.02 | Civic activitiesCommunity recreation programs | 96 96 | Op | Op | Op | Op |
| 2 32 70.03 2 32 70.04 | Community welfare activities | 96 | Op Op | Op Op | Op Op | Op Op |
| 2 32 70.05 | Facilities designed for community use as well as | ,,, | ОР | Op | Ор | ОР |
| | for school use | 96 | Op | Op | Op | Op |
| 2 32 70.06 | Facilities available for community use | 96 | Op | Op | Op | Op |
| 2 32 70.07 | Identification of community needs and interests | 96 | Op | Op | Op | Op |
| 2 32 70.08 | Library service to public Services for nonpublic school pupils | 96 96 | Op Op | Op Op | Op Op | Op Op |
| 2 32 70.10 2 32 70.11 | Tutoring and homework help program | 96 | Op | Op | Ор | ОР |
| 2 32 70.90 | Other community services | 96 | Op | Op | Op | Op |
| 2 32 81. | Food services | 96 | Op | Op | Op | Op |
| 2 32 81.10 | Regular meals | 96 | Op | Op | Op | Op |
| 2 32 81.20 2 32 81.90 | Incidental meals and/or snacks Other food services | 96 96 | Op Op | Op Op | Op Op | Op Op |
| | Dunil transportation complete | 96 | | | | |
| 2 32 82. 2 32 90. | Pupil transportation services Other services supporting instruction | 96 96 | Op Op | Op Op | Op Op | Op Op |



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| 33 00. | COMMUNITY RESOURCES | 96 | Op | Op | Op | Op |
| 34 00. | LOCATION OF INSTRUCTION | 96 | | | | |
| 34 10.10 | School facility or facilities | 97 | Rec | Rec | Rec | Rec |
| 34 10.10 | | 97 | Rec | Rec | Rec | Rec |
| 34 10.20 | Ucanital | 97 | Rec | Rec | Rec | Rec |
| | | 97 | Rec | Rec | Rec | Rec |
| 34 10.40 34 10.90 | Other nonschool location | 97 | Rec | Rec | Rec | Rec |
| 35 10. | FACILITIES OF SCHOOL | 97 | Op | Op | Op | Op |
| 41 00. | STRUCTURE OF PROGRAM OF STUDIES | 100 | Op | Op | | |
| 53 20. | PROGRAMS OF STUDIES OF SCHOOL (SUM- MARY INFORMATION) | 103 | | | | |
| 53 21. | Single program or multiple programs of studies | 103 | | | | |
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| 53 22. 53 23. | Type(s) of program of studiesArea(s) of specialization | 103 103 | Rec | Rec Op | Rec Op | Rec Op |
| 55 30. | PUPIL MEMBERSHIP IN PROGRAMS OF STUDIES, COURSES, AND COCURRICULAR ACTIVITIES OF SCHOOL (SUMMARY IN- FORMATION) | 104 | Ор | Op | Op | Op |
| 56 20. | INSTRUCTIONAL STAFF MEMBERS WITHIN SCHOOL (SUMMARY INFORMATION) | 104 | Op | Op | Op | Op |
| 57 20. | COURSES OFFERED BY SCHOOL (SUMMARY INFORMATION) | 104 | | Op | Op | Op |
| 58 20. | COCURRICULAR ACTIVITIES PROVIDED BY SCHOOL (SUMMARY INFORMATION) | 105 | | Op | Op | Op |
| 99 00. | OTHER INFORMATION ABOUT SCHOOL | 105 | Op | Op | Op | Op |

ITEMS DESCRIBING A PROGRAM OF STUDIES

30000 Series

A program of studies is a combination of related courses and/or self-contained classes organized for the attainment of specific educational objectives, e.g., a program of special education for handicapped pupils, a college preparatory program, an occupational program (in a given occupation or cluster of occupations), a general education program, and a transfer program.

Items of information included in the 30000 Series may be used to describe aspects of each program of studies offered by a school. This includes items concerning the type of program, accreditation or approval, units of value or "credits," pupils served by the program, requirements for entrance into the program, requirements and recognition for comple-

tion, and the content of the program. Items of information used for describing the school providing each program of studies are included in the 20000 Series.

For certain types of schools, items of information descriptive of a "department" (e.g., of an English department or science department) may be drawn as appropriate from various portions of the handbook and included under this heading. Among such items are those used to describe departmental course offerings (see item X5740 of chapter 4), staff members (see the X5000 Series of chapter 4), facilities (the X3500 Series), and equipment and supplies (the X3600 Series).



| | | | Definition | Type of instructional program | | | | |
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| | 13. | Local descriptive title | 59 | Rec | Rec | Rec | Rec | |
| | 2 22. | Local number or code | 59 | Rec | Rec | Rec | Rec | |
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| 3 0 | 2 43.11 | Typical local elementary program | 61 | Rec | | | | |
| | 2 43.12 | Typical local middle school program | 61 | Rec ⁵ | Rec ⁵ | | | |
| | 2 43.13 | Typical local junior high school program | 61 | | Rec | | | |
| 3 03 | 2 43.20 | Program of special education for handicapped | <i>(</i> 1 | D | ъ | D | D | |
| 2 0 | 12 21 | pupils | 61 61 | Rec | Rec Rec | Rec | Rec | |
| | 2 43.31 2 43.32 | College preparatory program Provisions for postgraduate studies | 61 | | Rec | | | |
| | 2 43.32 | General education program | 61 | | Rec | Rec | Rec | |
| 3 0 | 2 43.42 | Occupational program | 62 | | Rec | Rec | Rec | |
| 3 0 | 43.51 | Transfer program | 62 | | | Rec | 100 | |
| | 43.61 | Provisions for free selection | 62 | | | | Rec | |
| | 2 43.71 | Rehabilitation program | 62 | Rec | Rec | Rec | Rec | |
| | 2 43.90 | Other program of studies | 62 | Rec | Rec | Rec | Rec | |
| 2 0 | 2 44. | Combination of courses | 62 | | Op | Op | Op | |
| | 2 70. | Contract for instruction or service | 63 | | Ор | ОР | ОР | |
| | | 0 11. | (0 | D | D | | D | |
| | 2 71.10 | Contract awarded to another agency | 63 | Rec | Rec | Rec | Rec | |
| 3 0 | 2 71.20 | Contract awarded to this school, school system, or agency | 63 | Rec | Rec | Rec | Rec | |
| 3 0 | 2 72. | Source or recipient of contract | 63 | | | | | |
| 2 0 | 70 10 | Dillia sahaal ay sahaal ayatam | 63 | On | On | On | On | |
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| | 2 72.30 | Other public agency Nonpublic school or school system | 63 | Op | Op | Op | Op | |
| | 2 72.40 | Other nonpublic agency | 63 | Op | Op | Op | Op | |
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| | 5 20. | Approving agency | 66 | Rec | Rec | Rec | Rec | |
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| | 5 40. | Accrediting agency | 66 | | | | | |
| 3 0 | 5 40.10 | State department of education | 66 | | Rec | Rec | Rec | |
| | 5 40.20 | Regional accrediting association | 66 | | Rec | Rec | Rec | |
| 3 0 | 5 40.30 | Professional association | 66 | | Rec | Rec | Rec | |
| | 5 40.40 | Technical and/or business association | 66 | | Rec | Rec | Rec | |
| 3 0 | 5 40.90 | Other agency | 66 | | Rec | Rec | Rec | |
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| 3 0 | 5 52. | Organization of time segments in daily session | 68 | | | | | |
| 3 0 | 5 52.10 | Entire session (self-contained class) | 68 | | Op | | | |
| 3 0 | 5 52.20 | Partially departmentalized session | 68 | | Op | | | |
| 3 0 | 5 52.30 | Uniform class periods | 68 | | Op | | | |
| 3 0 | 5 52.31 | Single period | 68 | | Op | | | |
| 3 0 | 5 52.32 | Multiple periods (block of time) | 68 | | Op | | | |
| | 5 52.33 | Combination of single and multiple periods | 68 | | Op | | | |
| 3 00 | 5 52.40 | Nonuniform class periods | 68 | | Op | | | |
| 3 00 | 52.50 | Modules of time | 68 | | Op | | | |
| | 52.60 | Combination of class periods and modules | 68 | | Op | | | |
| 3 00 | 5 52.90 | Other organization | 69 | | Op | | | |
| 3 00 | 5 55. | Minutes in session | 69 | | | | | |
| | 56. | Minutes of instruction in session | 69 | | Op | | Op | |
| | 65. | Minutes in class period | 69 | | Op | | | |
| 3 0 | 66. | Number of class periods in typical daily session | 69 | | Op | | | |

⁵ Recommended for middle school instructional program.



| | | | Definition | Type of instructional program | | | | |
|-------------------|----------------|---|-------------|-------------------------------|-----------|-------------------|-----------------|--|
| | | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education | |
| PR | OGRA | M OF STUDIES—Continued | | | | | | |
| 06 6 | 7 | Number of class periods in typical week | 69 | | Ор | Op | Op | |
| 06 7 | | Module of time | 69 | | Op | | | |
| 06 9 | 90. | Other time elements | 71 | Op | Op | Op | Op | |
| 07 0 | 00. | EVALUATION AND CURRICULUM IMPROVE- MENT | 71 | | | | | |
| 07.1 | 0 | Background of the instructional program | 71 | On | On | Ор | On | |
| $07 \ 1 \ 07 \ 4$ | | Evaluation procedures | 74 | Op Op | Op Op | Op | Op Op | |
| 07 5 | | Aspects of program of studies evaluated | 74 | Op | Op | Op | Ор | |
| 07 6 | 60. | Curriculum improvement activity | 77 | Op | Op | Op | Op | |
| 07 9 | 90. | Other aspects of evaluation and curriculum improve- | | | | | | |
| | | ment | 78 | Op | Op | Op | Op | |
| 08 (| 00. | EVALUATING AND REPORTING PUPIL PROGRESS | 78 | | | | | |
| | | | | | | | | |
| 08] | 10. | Unit of value | 78 | | | | | |
| 08 1 | 11. | Terminology used for unit of value | 78 | 5800000000 | Op | Op | Op | |
| 08 | | Class periods or modules per week per unit of value_ | 78 | | Rec | Rec | Op | |
| 08 | 13. | Minutes per week per unit of value | 79 | | Rec | Rec | Op | |
| 08 | | Portion of regular school term for unit of value | 79 | | Rec | Rec | Op | |
| 08 | 15. | Variations in units of value | 79 | | Op | | | |
| 08 3 | 30 | Marking scale | 79 | Op | Op | Op | Op | |
| 08 4 | | Mark value for courses | 79 | | Op | | | |
| 08 6 | 50 . | Means of reporting | 80 | Op | Op | | | |
| 08 | 70. | Mark-point average | 80 | | Op | | | |
| 09 (| 00. | PUPILS SERVED BY PROGRAM OF STUDIES | 80 | | | | | |
| 09 | 10. | Number of pupils served | 80 | Op | Op | Op | Op | |
| 09] | 12 | Full-time pupils | 80 | | | Op | Op | |
| 09 | | Part-time pupils | 80 | | | Op | Op | |
| 09 | 14. | Full-time equivalency of pupils | 80 | | | Op | Op | |
| 09 2 | 20. | Basis for selection or grouping | 80 | Op | Op | Op | Op | |
| 09 3 | | Sex of pupils | 80 | Op | Op | Op | \mathbf{Op} | |
| 09 4 | 10. | Pupil background | 81 | | | | | |
| 09 | 45. | Cultural handicaps | 81 | Rec | Rec | | Rec | |
| | 45.10 | Culturally disadvantaged | 81 | Rec | Rec | | Rec | |
| | 45.20 | Inability to speak language of instruction | 81 | Rec | Rec | | Rec | |
| | 45.30 45.40 | Migrant childrenFunctionally illiterate | 81 81 | Rec | Rec | | Rec | |
| | 45.90 | Other cultural handicaps | 81 | Rec | Rec | | | |
| 09 | 19 . | Other background factors | 81 | Op | Op | Op | Op | |
| 09 5 | 50. | Pupils within the normal range of ability and per- | 81 | | | | | |
| 00 | 50.10 | Ungrouped pupils within the normal range | 81 | Rec | Rec | Rec | Rec | |
| | 50.20 | Underachieving pupils | 81 | Rec | Rec | | | |
| 09 5 | 50.30 | Slow learners | 81 | Rec | Rec | Op | Rec | |
| 09 3 | 50.90 | Other groups of pupils within the normal range of ability and performance | 81 | | | | | |
| 09 | 50.91 | Prekindergarten age | 81 | Op | | 12000 | | |
| | 50.92 | Former dropouts | 81 | - F | Op | Op | Op | |
| 09 5 | 50.93 | Employed youth under age 18 | 81 | | Op | | Op | |
| | 50.94 | Pregnant girls | 81 | | Op | | Op | |
| | 50.95 50.96 | Adult age Parents | 81 81 | Op | Op Op | Op Op | Op Op | |
| | 50.90 | Other characteristics | 81 | Op | Op | Op | Op | |
| | | | | | | | | |
| | 60. | Pupils outside the normal range of ability and per- | 82 | I | | | | |



| | | Classification of items of information | Definition | Ty | pe of instruc | tional progr | am |
|--------------------|------------|---|-------------|------------|---------------|-----------------------|-----------------|
| | | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education |
| PRO | OGRA | AM OF STUDIES—Continued | | | | | |
| 3 09 60 | 0.10 | Gifted and talented | 82 | Rec | Rec | Rec | Rec |
| 09 60 | | In general academic work | 82 | Op | Op | Op | Op |
| 09 60 | | In fine arts areas In vocational and technical areas | 82 | Op | Op | Op | Op |
| 09 60 | | In other areas | 82 82 | Op Op | Op Op | Op Op | Op Op |
| | | | | Ор | Op | Op | ОР |
| 09 60 | 0.30 | Mentally retarded | 82 | | | | |
| 09 60 | 0.31 | Educable mentally retarded | 82 | Rec | Rec | | Ор |
| 09 60 | 0.32 | Trainable mentally retarded | 82 | Rec | Rec | | |
| 09 60 | 0.33 | Severely mentally retarded | 82 | Rec | | | |
| 09 60 | 0.40 | Physically handicapped | 82 | | | | |
| 09 60 | 0.41 | Blind | 82 | Rec | Rec | Rec | Rec |
| 09 60 | | Partially seeing | 82 | Rec | Rec | Rec | Rec |
| 09 60 | | Deaf. | 82 | Rec | Rec | Rec | Rec |
| 09 60 09 60 | | Hard of hearingSpeech impaired | 82 82 | Rec | Rec | Rec | Rec |
| 09 60 | | Crippled | 82 82 | Rec Rec | Rec Rec | Rec Rec | Rec Rec |
| 09 60 | | Crippled | 82 | Rec | Rec | Rec | Rec |
| 09 60 | 0.50 | Socially and/or emotionally handicapped | 82 | | | | 100 |
| 09 60 | 0 51 | Emotionally disturbed | 82 | Rec | Rec | | |
| 09 60 | | Delinquency prone | 82 | Rec | Rec | | |
| 09 60 | | Other social and/or emotional handicaps | 82 | Rec | Rec | | |
| 09 60 | 0.60 | Pupils with learning disabilities | 82 | Rec | Rec | | |
| 3 09 60 | | Other groups of pupils outside the normal range of ability and performance | 83 | 1100 | 1100 | | |
| 3 09 60 | 0.91 | Multiple handicapped | 83 | Rec | Rec | Op | Op |
| 09 60 | | Other characteristics | 83 | Op | Op | $\breve{\mathrm{Op}}$ | Op |
| 10 00 | 0. | ENTRANCE INTO PROGRAM OF STUDIES | 83 | | | | |
| 3 10 10 | 0. | Requirements for entrance into program of studies | 83 | | | | |
| 3 10 10 | | Course or courses previously completed | 83 | | Op | Op | Op |
| 10 10 | | Achievement in schoolwork | 83 | | Op | Op | Op |
| 10 10 | | Current employment | 83 | | | | Op |
| 10 10 10 10 | | Employability Grade or year standing | 83 | | Op | | Op |
| 10 10 | | No requirement | 83 83 | | Op Op | Op | 000 |
| 10 10 | | Payment of fee | 83 | Rec | Op Rec | Op Rec | Op Rec |
| 3 10 10 3 10 10 | | Recommendation of psychologist Recommendation of teachers, counselor, and/or | 83 | Rec | Rec | | |
| 10.70 | 0 14 | principal | 83 | Rec | Rec | Rec | |
| 3 10 10 3 10 10 | | Special pupil ability, aptitude, or interest | 83 | Op | Op | Op | Op |
| 10 10 | 0/10/07/07 | Special pupil needSuccessful completion of entrance examination or | 83 | Rec | Rec | | |
| | | other test | 83 | | Op | Op | Op |
| 10 10 | | Other requirements | 83 | Rec | Rec | Op | Op |
| 3 10 30 | 0. | Orientation practices | 84 | | Op | Op | Op |
| 3 12 00 | | COMPLETION OF PROGRAM OF STUDIES | 84 | 1 | | | |
| 3 12 10 | 0. | Requirements for successful completion of program of studies | 84 | | | | |
| 3 12 10 | 0.10 | Completion of a minimum number of units of value_ | 85 | | Rec | Rec | |
| 12 10 | | Total number | 85 | | Op | Op | Op |
| 3 12 10 | 0.12 | Number in required courses in area of major specialization | 85 | | | | |
| | 0 13 | Number in required courses in area of minor | 00 | | Op | Op | Op |
| 3 12 10 | 0.13 | Transfer in required courses in urea of inition | 85 | | | | |



| | Classification of items of information | Definition | | pe of instruc | ctional progra | am |
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| | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education |
| B PROGI | RAM OF STUDIES—Continued | | | | | |
| 3 12 10.14 3 12 10.15 | | 85 85 | | Op Op | Op Op | Op Op |
| 3 12 10.20 3 12 10.30 | | 85 85 | | Rec Rec | Rec | Rec |
| 3 12 10.30 | Age | 85 | Op | Op | | |
| 3 12 10.50 | | 85 | Op | $\tilde{\mathbf{O}}_{\mathbf{p}}^{\mathbf{p}}$ | | |
| 3 12 10.90 | Other requirement | 85 | | Rec | Rec | |
| 3 12 21. | Recognition for completion of program of studies | 85 | | | | |
| 3 12 21.10 | High school diploma | 85 | | Rec | | |
| 3 12 21.20 | Certificate of high school equivalency | 85 | | Rec | | |
| 3 12 21.30 | Certificate of completion | 85 | | Rec | | Rec |
| 3 12 21.40 | | 85 | | Rec | | Rec |
| 3 12 21.50 | | 85 | | | Rec | |
| 3 12 21.60 | Other certificate or degree | 85 | | Rec | Rec | Rec |
| 3 12 21.70 | | 85 | Rec | Rec | Rec | |
| 3 12 21.80 3 12 21.90 | | 85 85 | Rec Rec | Rec Rec | Rec | Rec Rec |
| 3 12 30. | Other termination practices | 87 | Op | Op | | |
| 3 21 00. | SUBJECT MATTER OF PROGRAM OF STUDIES | 87 | 14.35 | 17.54 | | |
| 3 21 40. | Specialization | 87 | | | | |
| 0 01 41 | | 00 | | | n | ъ |
| 3 21 41. | Area(s) of major specialization | 88 | | Op | Rec | Rec |
| 3 21 42. 3 21 43. | Area(s) of minor specialization Type of occupational program of studies | 88 88 | | Op | Rec | Rec |
| 3 21 43.10 | Occupational training program | 88 | | Rec | Rec | Rec |
| 3 21 43.20 | | 88 | | Rec | Rec | Rec |
| 3 21 43.21 | | 88 | | | | Rec |
| 3 21 43.22 | | 88 | | | | Rec |
| 3 21 43.30 | | 88 | | Rec | Rec | Rec |
| 3 21 43.40 | | 88 | | | Rec | Rec |
| 3 21 43.50 | | 88 88 | | Rec | D | Rec |
| 3 21 43.90 | 1 1 0 | | | Rec | Rec | Rec |
| 3 21 44. | Occupational goal of pupils | 88 | | Rec | | Rec |
| 3 21 50. | Courses offered in program of studies | 88 | | Rec | Op | Op |
| 3 21 51. 3 21 52. | Required coursesElective courses | 88 88 | | Op Op | Op Op | Op Op |
| 3 23 00. | PLANNED INSTRUCTIONAL OUTCOMES FOR | 27.62 | | | 1 | |
| 20 00. | PUPILS | 89 | Op | Op | Op | Op |
| 34 00. | LOCATION OF INSTRUCTION | 96 | | Op | Op | Op |
| 36 00. | INSTRUCTIONAL EQUIPMENT AND SUPPLIES FOR PROGRAM OF STUDIES | 99 | Op | Op | Op | Op |
| 3 41 00. | STRUCTURE OF PROGRAM OF STUDIES | 100 | | | | |
| 3 41 10.10 | 에게 그래, 이 무슨 이 그렇게 하게 있으면 이번에 가장 아이를 하는데 이 이 사람들이 되는데 하는데, 이 물리 하는데, 이 얼마나 그를 먹었다. 그를 먹었다면 다양하다. | 100 | | 0 | | |
| 3 41 10.20 | Barrier 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 100 | Op | Op | | |
| | matter areas | 100 | Op | Op | | |
| 3 41 10.30 | | 100 | Op | Op | | |
| 3 41 10.40 | | 100 | Op | Op | | |
| 3 41 10.50 | | 100 100 | Op | Op Op | | |
| 3 41 10.80 3 41 10.90 | | 100 | Op Op | Op Op | Op | Ор |
| | INSTRUCTIONAL SERVICES RELATED TO | 777 | r | r | ~P | l °r' |
| F 4 00 | INSTRUCTIONAL SERVICES RELATED TO | | I i | | | 1 |
| 3 54 30. | PROGRAM OF STUDIES (SUMMARY IN- | | | | | |



| | | | Definition | T | Type of instructional program | | | | |
|---|------------------|---|-------------|------------|-------------------------------|-------------------|-----------------|--|--|
| | | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education | | |
| 3 | PROG | RAM OF STUDIES Continued | | | | | | | |
| 3 | 55 30. | PUPIL MEMBERSHIP IN COURSES AND CO- CURRICULAR ACTIVITIES OF PROGRAM OF STUDIES (SUMMARY INFORMATION) | 104 | Op | Op | Op | Op | | |
| 3 | 56 30. | INSTRUCTIONAL STAFF MEMBERS FOR PROGRAM OF STUDIES (SUMMARY INFORMATION) | 104 | Op | Op | Ор | Op | | |
| 3 | 57 00. | COURSES (SUMMARY INFORMATION) | 104 | | | | | | |
| - | 57 31. 57 32. | Courses in program of studies Courses offered by department | 105 105 | | Rec Op | Op Op | Op Op | | |
| 3 | 58 30. | COCURRICULAR ACTIVITIES RELATED TO PROGRAM OF STUDIES (SUMMARY INFORMATION) | 105 | Ор | Op | Op | Op | | |
| 3 | 99 00. | OTHER INFORMATION ABOUT PROGRAM OF STUDIES. | 105 | Op | Op | Op | Op | | |

ITEMS DESCRIBING A SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY

40000 Series

Items of information included in the 40000 Series may be used to describe aspects of each type of self-contained class, course, or cocurricular activity, e.g., all the fifth-grade classes of a school, all the freshman English classes, and all the class organizations. This includes items for describing content, aspects of administrative arrangements, time elements, approval, type of pupils served, instruction, and recognition for completion.

A self-contained class is a class having the same teacher (or team of teachers) for all or most of the daily school session. A type of self-contained class in a given school may comprise two or more sections,

e.g., three sections of the fourth grade.

A course is an organization of subject matter and related learning experiences provided for the instruction of pupils on a regular or systematic basis, usually for a predetermined period of time (e.g., a semester, regular school term, and a 2-week workshop). A course may comprise two or more sections, e.g., four sections of a freshman English course. Credit toward graduation or completion of a program of studies generally is given pupils for the successful completion of a course.

A cocurricular activity is an aspect of the total curriculum, under the direction of the school but

generally not provided in typical classes, for which participation generally is not required and credit generally is not given. Such activities often include camp experiences, student organizations, intramural and interscholastic athletics, entertainments, assembly programs, publications, clubs, band, orchestra, pupil participation in school government, and service activities. When these activities are managed by pupils under the guidance or supervision of staff members they generally are referred to as student body activities. Activities in which participation is required or for which units of value are given usually are considered to be courses. In some situations, a given activity (e.g., orchestra) may serve as a cocurricular (noncredit) activity for many participants and as a course for others. (See also p. 242.)

Items of information used in describing the program of studies of which a class or course may be a part are included in the 30000 Series. Items used for scheduling are included in the 50000 Series. Some items of information which may be used in the evaluation of a self-contained class, course, or cocurricular activity are included in chapter 4 under item X0700, Evaluation and Curriculum Improvement

and, more specifically, under item X0754.



| | | | Definition | Type of instructional program | | | | |
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| 01 | 00. | SPECIFICATIONS FOR SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY | 59 | Op | Op | Op | Op | |
| 02 | 00. | IDENTIFICATION OF SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY | 59 | | | | | |
| 02 | 12. | Standard descriptive title | 59 | Rec | Rec | Rec | Rec | |
| 02 | 13. | Local descriptive title | 59 | Rec | Rec | Rec | Rec | |
| 02 | 21. | Standard number or code Local number or code | 59 59 | Rec Rec | Rec Rec | Rec Rec | Rec Rec | |
| | 22. 45. | Type of class organizational arrangement | 62 | rtec | Nec | nec | nec | |
| | 45.10 45.20 | Self-contained class | 62 62 | Rec Rec | Rec Rec | Rec Rec | Rec Rec | |
| 02 | 10.20 | | | 7.50 | | | | |
| | 45.21 | Vocational course | 62 | | Rec | Rec | Rec | |
| | 45.22 45.23 | Advanced placement course General continuation class | 62 62 | | Rec | | Op | |
| | 45.29 | Other course | 62 | Op | Op | Op | Op | |
| 02 | 45.30 | Cocurricular activity | 62 | Op | Rec | Rec | Op | |
| 02 | 70. | Contract for instruction or service | 63 | Rec | Rec | Rec | Rec | |
| 03 | 00. | PLACEMENT OF CLASS, COURSE, OR | | | | | | |
| - 1 | | ACTIVITY | 63 | | | | | |
| 03 | 22. | Grade placement | 64 | Rec | Rec | Rec | Rec | |
| | 32. 51. | Year placement Number of courses or classes in sequence | 65 65 | Rec | Rec | | | |
| 03 | 51.01 | 1 course or class | 65 | Op | Ор | Op | Op | |
| | 51.02 | 2 courses or classes | 65 | Op | Op | Op | $O_{\mathbf{p}}^{\mathbf{r}}$ | |
| 03 | 51.03 | 3 courses or classes | 65 | Op | Op | Op | Op | |
| | 51.04 | 4 courses or classes5 courses or classes | 65 65 | Op Op | Op Op | Op Op | Op Op | |
| | 51.05 | 6 courses or classes | 65 | Op | Op | Op | Op | |
| | 51.07 | 7 courses or classes | 65 | Op | Op | Op | Op | |
| | 51.08 51.09 | 8 courses or classes Other number of courses or classes | 65 65 | Op Op | Op Op | Op Op | Op Op | |
| | 52. | Position of course or class in sequence | 65 | | | | | |
| 03 | 52.01 | 1st course or class | 65 | Op | Op | Op | Op | |
| | 52.02 | 2d course or class | 65 | Op | Op | Op | Op | |
| | 52.03 | 3d course or class | 65 65 | Op Op | Op Op | Op Op | Op Op | |
| | 52.04 52.05 | 5th course or class | 65 | $\tilde{\mathrm{Op}}$ | Op | $\breve{\mathrm{Op}}$ | Op | |
| | 52.06 | 6th course or class | 65 | Op | Op | Op | Op | |
| | 52.07 | 7th course or class | 65 | Op | Op | Op | Op | |
| | 52.08 52.09 | 8th course or classOther position | 65 65 | Op Op | Op Op | Op Op | Op Op | |
| 04 | 00. | LEVEL OF DIFFICULTY OR ABILITY | 65 | | | | | |
| l 04 | 10. | Level of difficulty | 65 | | | | | |
| | 10.10 | Average difficulty | 65 | Rec | Rec. | | | |
| | 10.20 | Above-average difficulty | 65 65 | Rec Rec | Rec Rec | | | |
| | 10.30 | Below-average difficulty For mentally retarded | 65 | Rec | Rec | | | |
| | 10.40 | Not applicable | 65 | Rec | Rec | | | |
| 04 | 20. | Level of ability required | 65 | | | | | |
| | 20.10 | Average ability | 65 65 | | Op Op | | | |
| | 20.20 20.30 | Above-average ability Below-average ability | 65 | | Op | | | |
| | | NT . 1' 11 | 65 | | Op | 1 | | |
| | 20.80 | Not applicable | 00 | | P | | | |



| | | Definition | Type of instructional program | | | | |
|--------------------------|--|-------------|-------------------------------|------------|-------------------|-----------------|--|
| | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education | |
| 4 SELF-CO LAR A | NTAINED CLASS, COURSE, OR COCURRICU-CTIVITY—Continued | | | | | | |
| | Approval statusApproving agency | 66 66 | | Rec Rec | Rec Rec | Rec Rec | |
| | TIME SCHEDULE | 66 | | 1100 | 1100 | 100 | |
| | Minutes in class period | 69 | | Rec | Rec | Op | |
| 4 06 78. | Usual number of modules per day for unit of value | 69 | | Rec | | | |
| | Year and term | 70 | Rec | Rec | Rec | Rec | |
| 1 06 83. 1 06 84. | Days of week Number of days per week | 70 70 | | Rec | Rec | Rec | |
| 4 06 84.01 | 1 day | 70 | | Op | Op | Op | |
| 4 06 84.02 | 2 days | 70 | | Op | Op | Op | |
| 06 84.03 | 3 days | 70 | | Op | Op | Op | |
| 1 06 84.04 | 4 days | 70 | | Op | Op | Op | |
| 4 06 84.05 4 06 84.06 | 5 days 6 days | 70 70 | | Op Op | Op Op | Op Op | |
| 4 06 84.07 | 7 days | 70 | | Op | Op | Op | |
| 4 06 84.08 | Variable number of days | 70 | | Op | Op | Op | |
| | Time of day Time segment for class or course | 70 70 | Op | Op | Op | Op | |
| 4 06 86.11 | Entire session | 70 | Op | | | Op | |
| 4 06 86.12 | Block of time | 70 | P | Ор | | | |
| 4 06 86.13 | Single class period | 70 | | Op | | | |
| 4 06 86.14 | Modules of time | 70 | | Op | | | |
| 4 06 86.15 | Variable amounts of time | 70 | | Op | | | |
| 4 06 86.19 | Other amount of time | 70 | | Op | | | |
| 4 06 87. 4 06 88. | Minutes per week Number of weeks | 70 70 | | | | | |
| 1 06 00 01 | Under 5 weeks | 70 | On | On | On | On | |
| 4 06 88.01 4 06 88.02 | Under 5 weeks | 70 70 | Op Op | Op Op | Op Op | Op Op | |
| 06 88.03 | 9 to 12 weeks | 70 | Op | Op | Op | Op | |
| 06 88.04 | 13 to 20 weeks | 70 | Op | Op | Op | Op | |
| 06 88.05 | 21 to 32 weeks | 70 | Op | Op | Op | Op | |
| 4 06 88.06 | 33 to 36 weeks | 70 | Op | Op | Op | Op | |
| 4 06 88.07 | 37 to 40 weeks | 70 | Op | Op | Op | Op | |
| 4 06 88.08 4 06 88.09 | 41 to 44 weeks 45 to 52 weeks | 70 70 | Op Op | Op Op | Op Op | Op Op | |
| | Miscellaneous times for class meetings | 70 | Op | Op | Op | Op | |
| 4 06 90. | Other time elements | 71 | Op | Ор | Op | Op | |
| 4 07 00. | EVALUATION AND CURRICULUM IMPROVE- MENT | 71 | | | | | |
| 4 07 10. 4 07 20. | Background of the instructional program | 71 | Op | Op | Op | Op | |
| | Organization for evaluation and/or curriculum im- provement | 73 | Op | Op | Op | Op | |
| ± 01 30. | curriculum improvement | 73 | Ор | Op | Op | Op | |
| 4 07 40. | Evaluation procedures | 74 | $\breve{\mathrm{Op}}$ | ŏp | Op | Op | |
| 4 07 54. | Factors evaluated | 76 | Op | Op | Op | Op | |
| 4 07 54.10 | Characteristics of staff | 77 | Op | Op | Op | Op | |
| 4 07 54.20 | Instructional content | 77 | Op | Op | Op | Op | |
| 4 07 54.30 4 07 54.40 | Resource utilizationInstructional processes | 77 77 | Op Op | Op Op | Op Op | Op Op | |
| 4 07 54.40 | Other factors | 77 | Op | Op | Op | Op | |
| 4 07 90. | Other aspects of evaluation and curriculum improve- | 78 | Ор | Ор | Op | Op | |
| 4 08 00. | EVALUATING AND REPORTING PUPIL | 70 | | | | | |
| | PROGRESS | 78 | | | | | |
| 4 08 10. | Unit of value | 78 | | | | 1 | |



| | | | Definition | Y | Type of instructional pro | | ogram | |
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| | | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education | |
| 4 S | ELF-CO | ONTAINED CLASS, COURSE, OR COCURRICU-ACTIVITY—Continued | | | | | | |
| 4 08 | 11 | Terminology used for unit of value | 78 | | Ор | Ор | Op | |
| 4 08 | | Class periods or modules per week per unit of value | 78 | | Rec | Rec | Op | |
| 4 08 | | Minutes per week per unit of value | 79 | | Rec | Rec | | |
| 4 08 | 15. | Variations in units of value | 79 | | Op | | | |
| 4 08 | 20. | Credit or noncredit | 79 | | | | | |
| | 20.10 | Credit awarded Credit not awarded | 79 79 | | Op | Op | | |
| 4 08 | 20.20 | | | | Op | Op | | |
| 4 08 | | Marking scale | 79 | Op | Op | Op | Op | |
| 4 08 | | Mark value for course | 79 80 | | Op | | | |
| 4 08 | 60. | Means of reporting | 00 | Op | Op | | | |
| 4 09 | 00. | PUPILS SERVED | 80 | | | | 22 | |
| 4 09 | | Number of pupils | 80 | Op | Op | Op | Op | |
| 4 09 | | Basis for selection or grouping | 80 | Rec | Rec | Rec | Rec | |
| 4 09 4 09 | | Pupil background Pupils within the normal range of ability and per- | 81 | Op | Op | Op | Op | |
| | | formance Pupils outside the normal range of ability and per- | 81 | Op | Op | Op | Op | |
| 4 09 | 60. | formance | 82 | Rec | Rec | Rec | Rec | |
| 4 09 | 70. | Intraschool and/or interschool activity | 83 | nec | nec | Tiec | rtec | |
| 4 09 | 70.10 | Intraschool activity | 83 | | Op | Op | | |
| | 70.20 | Interschool activity | 83 | | Op | Op | | |
| 4 10 | 00. | ENTRANCE INTO SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY | 83 | | | | | |
| 4 10 | 10. | Requirements for entrance | 83 | | | | | |
| 4 10 | 10.02 | Course or courses previously completed | 83 | | Op | Op | Op | |
| | 10.03 | Enrollment in given program of studies | 83 | | Op | Op | Op | |
| | 10.04 | Achievement in schoolwork | 83 | | Op | Op | Op | |
| | 10.05 | Age | 83 | Op | Op | Op | Op | |
| | 10.07 | Current employment | 83 | | | | - Op | |
| | 10.09 | Grade or year standing | 83 83 | | Op | Op | On | |
| | $10.10 \\ 10.11$ | No requirement | 83 | Rec | Op Rec | Op Rec | Op Rec | |
| | 10.11 | Payment of feeRecommendation of psychologist | 83 | Rec | Rec | nec | Hec | |
| 4 10 | 10.13 | Recommendation of teachers, counselor, and/or | | | | | | |
| | | principal | 83 | | Rec | Rec | | |
| 4 10 | 10.14 | Special pupil ability, aptitude, or interest | 83 | Op | Op | Op | Op | |
| | $10.15 \\ 10.16$ | Special pupil needSuccessful completion of entrance examination or | 83 | Rec | Rec | | | |
| | | other test | 83 | D | Op | Op | Op | |
| | 10.99 | Other requirements and procedures | 83 | Rec | Rec | Op | Op | |
| 4 10 | | Required or elective | 83 | | | | | |
| | $20.10 \\ 20.20$ | Required for all pupils | 83 83 | | Op Op | Op Op | Op | |
| 4 10 | 20.31 | College preparatory program | 83 | | Op | | | |
| | 20.41 | General education program | 83 | | $\tilde{\text{Op}}$ | | | |
| | 20.42 | Occupational program | 83 | | Op | | Op | |
| 4 10 | 20.51 | Transfer programOther program of studies | 83 84 | | On. | Op | On | |
| | 20.59 | | 04 | | Op | Op | Op | |
| | 20.60 | Required for all pupils in area of specialization within program. | 84 | | Op | Op | Op | |
| | 20.70 | Elective for all pupils | 84 | | Op | Op | | |
| 4 10 | 20.80 | Elective for pupils in specified programs of studies | 84 | | Op | Op | Op | |
| 4 12 | 00. | COMPLETION OF SELF-CONTAINED CLASS | 04 | | | | | |
| | | OR COURSE | 84 | | | | 1 | |



| | | Definition | Type of instructional program | | | | |
|--------------------------|--|-------------|-------------------------------|--|-------------------|-----------------|--|
| | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education | |
| 4 SELF-C | ONTAINED CLASS, COURSE, OR COCURRICU-ACTIVITY—Continued | | | | | | |
| 4 12 10. | Requirements for successful completion of self- | | | M 19 | | | |
| 4 12 10. | contained class or course | 84 | 16 | | | | |
| 4 12 10.20 | General performance or achievement in schoolwork | 85 | Op | Ор | Op | | |
| 4 12 10.30 | Equivalency examination | 85 | | Op | | | |
| 4 12 10.50 4 12 10.90 | Duration of time in course or classOther requirements | 85 85 | Op Op | Op Op | Op | | |
| | | | | 1 | | | |
| 4 12 22. | Recognition for completion of self-contained class, course, or cocurricular activity | 85 | | Rec | Rec | Rec | |
| 4 12 22.01 | Awarding of units of value | 85 | | Rec | Rec | Rec | |
| 4 12 22.02 | Completion of requirement, but no units of value | | | | | | |
| 4 12 22.03 | awarded Certificate | 86 86 | | Rec Rec | Rec Rec | Rec Rec | |
| 4 12 22.03 | Honor award | 86 | | Rec | Rec | Rec | |
| 4 12 22.05 | Letter of commendation | 86 | | Op | | | |
| 4 12 22.06 | Monogram | 86 | | Op | Op | | |
| 4 12 22.07 4 12 22.08 | Points Promotion or advancement | 86 86 | Rec | Op Rec | Op Rec | Rec | |
| 4 12 22.88 | No special recognition | 86 | 1100 | Rec | Rec | Rec | |
| 4 12 22.99 | Other recognition | 86 | | Op | Op | Op | |
| 4 21 00. | SUBJECT MATTER | 87 | | | | | |
| 4 21 10. | Subject matter for self-contained class | 87 | | | | | |
| 4 21 11. | Content for all schoolwork | 87 | Rec | | | Rec | |
| 4 21 12. | Content for portions of schoolwork within self- | 87 | Op | | | Op | |
| 4 21 13. | Content for portion outside self-contained class | 87 | Op | | | Op | |
| 4 21 20. | Subject matter for course | 87 | | | | | |
| 4 21 21. | Content for entire course | 87 | | Rec | Rec | Rec | |
| 4 21 22. | Content for portions of course | 87 | | Op | Op | Op | |
| 4 21 24. | Major resource or plan | 87 | | Rec | Rec | Rec | |
| 4 21 30. | Content of cocurricular activity | 87 | | | | | |
| 4 21 31. | Content of entire activity | 87 | | Rec | Rec | Rec | |
| 4 21 32. | Content for portions of activity | 87 | | Op | Op | Op | |
| 4 21 34. | Major resource or plan | 87 | | Op | Op | Op | |
| 4 22 00. | TREATMENT OF CONTENT | 88 | | | | | |
| 4 22 00.01 | Introduction to area | 88 | | Op | Op | Op | |
| 4 22 00.02 | Introduction to research methods in area | 88 | | Op | Op | Op | |
| 4 22 00.03 4 22 00.04 | Practice, application, or content enrichment Study in depth | 88 88 | Op | Op Op | Op Op | Op Op | |
| 4 22 00.04 | Survey of area | 88 | | Op | Op | Op | |
| 4 22 00.99 | Other treatment | 88 | | Op | Op | Op | |
| 4 23 00. | PLANNED INSTRUCTIONAL OUTCOMES FOR PUPILS | 89 | | | | | |
| | | | | 0 | | | |
| 4 23 00.01 | Approximations and attitudes | 89 89 | Op | Op | Op | Op | |
| 4 23 00.02 4 23 00.03 | Appreciations and attitudesAppropriate behavior | 89 | Op Op | Op Op | Op Op | Op Op | |
| 4 23 00.04 | Career guidance | 89 | -r | $\mathbf{\widetilde{O}}_{\mathbf{p}}^{\mathbf{p}}$ | Op | Op | |
| 4 23 00.05 | Career guidance Citizenship knowledge and understanding | 89 | Op | Op | Op | Op | |
| 4 23 00.06 | Cognitive thinking | 89 89 | Op | Op | Op | Op | |
| 4 23 00.07 4 23 00.08 | Creativity | 89 89 | Op Op | Op Op | Op Op | Op Op | |
| 4 23 00.09 | Education for leisure | 89 | $\widetilde{\mathrm{Op}}$ | Op | Op | Op | |
| 4 23 00.10 | Experience in service to others | 89 | Op | Op | Op | Op | |
| 4 23 00.11 | General development in area | 89 | Op | Op | Op | Op | |
| 4 23 00.12 4 23 00.13 | Historical awareness and/or background Knowledge and understanding in area | 89 89 | Op Op | Op Op | Op Op | Op Op | |
| | NAME OF THE PROPERTY OF THE PR | 0) | Up. | OP | OP | Ob | |



| | 100-100-00-00-00-00-00-00-00-00-00-00-00 | Definition | Т | ype of instruc | ctional progra | |
|--------------------------|---|-------------|--|----------------|-------------------|-----------------|
| | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education |
| | TAINED CLASS, COURSE, OR COCURRICU-TIVITY—Continued | | | | | |
| 4 23 00.14 4 23 00.15 | Leadership ability | 89 89 | Op | Op | Op | Op Op |
| 23 00.13 | Literacy Mental health | 89 | Ор | Ор | Ор | Op |
| 23 00.17 | Moral and ethical values | 89 | Op | Op | Op | Op |
| 23 00.18 | Occupational competence, initial | 89 | - r | Op | Op | Op |
| 23 00.19 | Occupational competence, upgraded or updated | 89 | | | | Op |
| 23 00.20 | Personal satisfaction | 89 | Op | Op | Op | Op |
| 23 00.21 | Physical fitness and health | 89 | Op | Op | Op | Op |
| 23 00.22 23 00.23 | Readiness Rehabilitation | 89 89 | Op Op | Op Op | Op | Op Op |
| 23 00.24 | Remediation | 89 | Op | Op | Ор | Op |
| 23 00.25 | Safety consciousness | 90 | Op | Op | Op | Op |
| 23 00.26 | Self-understanding | 90 | Op | Op | Op | Op |
| 23 00.27 | Skills associated with area | 90 | Op | Op | Op | Op |
| 23 00.28 | Skills of inquiry | 90 | Op | Op | Op | Op |
| 23 00.29 | Social adeptnessSocialization | 90 90 | Op Op | Op Op | Op | Op Op |
| 23 00.30 | Understanding of basic principles | 90 | Op | Op | Op Op | Op |
| 23 00.99 | Other planned outcomes | 90 | Op | Op | Op | Op |
| 31 00. S | TAFF MEMBERS | 90 | | | | |
| 4 31 10. T | eachers or other staff members assigned | 90 | Rec | Rec | Rec | Rec |
| 4 31 22. T | Ceacher for portions of schoolwork of self-contained class | 90 | Op | | | |
| 31 22.10 | Teacher of self-contained class | 90 | Op | | | |
| 4 31 22.20 | Specialist | 90 | Op | | | |
| 1 31 22.30 | Both | 90 | Op | | | |
| 4 31 22.50 | Other teacher | 90 | Op | | | |
| | Other information about staff members | 90 | Op | Op | Op | Op |
| 4 34 00. L | OCATION OF INSTRUCTION | 96 | Op | Op | Op | Op |
| 4 35 20. I | NSTRUCTIONAL SPACE FOR SELF-CON- TAINED CLASS, COURSE, OR CURRICULAR ACTIVITY | 97 | | | | |
| 4 35 20.10 | Regular instructional spaces | 97 | Op | Op | Op | Op |
| 4 35 20.11 | Regular classroom (permanent walls) | 97 | Op | Op | Op | Op |
| 4 35 20.12 | Regular classroom (movable partitions) | 97 | Op | Op | Op | Op |
| 4 35 20.13 | Large group instructional space | 97 | Op | Op | Op | Op |
| 4 35 20.14 | Small group instructional space | 97 | Op | Op | Op | Op |
| 4 35 20.20 | Special instructional spaces | 97 | Op | Op | Op | Op |
| 4 35 20.21 | Kindergarten room | 97 | Op | | | |
| 35 20.22 | Laboratory room | 97 | Op | Op | Op | Op |
| 35 20.23 | Shop room Home economics room | 98 98 | Op | Op | Op | Op |
| 35 20.24 35 20.25 | Music room | 98 | Op Op | Op Op | Op Op | Op Op |
| 4 35 20.26 | Special instructional space for exceptional | | 10.5 | 1,020 | ОР | |
| 4 35 20.29 | children Other special instructional space | 98 98 | Op Op | Op Op | Op | Op Op |
| 4 35 20.30 | Other instructional spaces | 98 | Op | Op | Op | Op |
| 35 20.31 | School library | 98 | Ор | Op | Op | Op |
| 35 20.32 | Study hall | 98 | Op | Ŏp | Ŏp | Op |
| 35 20.33 | Audiovisual room | 98 | Op | Op | Op | Op |
| 35 20.34 | Auditorium | 98 | Op | Op | Op | Op |
| 35 20.35 35 20.36 | Gymnasium Gymnatorium | 98 98 | Op Op | Op Op | Op Op | Op |
| 4 35 20.37 | Cafetorium | 98 | Op | Op | Op | Op Op |
| 35 20.38 | Multipurpose room: | 98 | $\breve{\mathbf{O}}_{\mathbf{p}}^{\mathbf{p}}$ | Ŏp | Ŏp | Op |
| 4 35 20.41 | Study carrel | 99 | Op | Op | Op | Op |
| 4 35 20.89 | Miscellaneous indoor instructional space | 99 | Op | Op | Op | Op |
| 4 35 20.99 | Miscellaneous outdoor instructional space | 99 | Op | Op | Op | Op |



| | | Definition | Type of instructional program | | | | |
|--------------------------|---|-------------|--------------------------------------|------------------------------------|-------------------|-----------------------|--|
| | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education | |
| 4 SELF-CO | ONTAINED CLASS, COURSE, OR COCURRICU- | | | | | | |
| | | | | | | | |
| 4 36 00. | INSTRUCTIONAL EQUIPMENT AND SUP- PLIES. | 99 | | | | | |
| 4 36 10. | Reading materials | 99 | | | | | |
| 4 36 10.10 | Books | 99 | Ор | Ор | Ор | Op | |
| 4 36 10.20 | Microforms | 99 | Op | $\overset{\circ}{\mathrm{Op}}$ | Op | Op | |
| 4 36 10.31 | Newspapers | 99. | Op | Op | Op | Op | |
| 4 36 10.32 | Pamphlets and documents | 99 | Op | Op | Op | Op | |
| 4 36 10.40 4 36 10.50 | Periodicals | 99 99 | Op Op | Op Op | Op Op | Op Op | |
| 36 10.60 | Study guides | 99 | Op | Op | Op | Op | |
| 4 36 10.70 | Textbooks | 99 | Op | Op | Op | Op | |
| 36 10.81 | Workbooks | 99 | Op | Op | Op | Op | |
| 4 36 10.82 4 36 10.90 | Written programmed materialsOther reading materials | 99 99 | Op Op | Op Op | Op Op | Op Op | |
| 4 36 20. | Visual equipment and supplies | 99 | • | | | | |
| 4 36 20.10 | Cameras | 99 | On | On | Op | Op | |
| 4 36 20.21 | Chalkboards | 99 | Op Op | Op Op | Op | Op | |
| 36 20.22 | Display boards and display cases | 99 | Op | Op | Op | Op | |
| 36 20.31 | Filmstrips and/or slides | 99 | Op | Op | $O_{\mathbf{p}}$ | Op | |
| 36 20.41 | Globes | 99 | Op | Op | Op | Op | |
| 36 20.42 | Maps, graphs, and/or charts | 99 | Op | Op | Op | Op | |
| 36 20.50 36 20.61 | Motion pictures (silent) | 99 99 | Op Op | Op Op | Op Op | Op Op | |
| 36 20.62 | Overhead projectors | 99 | Op | Op | Op | Op | |
| 36 20.70 | Picture sets and study prints | 99 | Op | Op | Op | Op | |
| 36 20.81 | Projection screens | 99 | Op | Op | Op | Op | |
| 36 20.82 | Readers and reader-printers for microforms | 99 | Op | Op | Op | Op | |
| 36 20.83 36 20.90 | Transparency makerOther visual equipment and supplies | 99 99 | Op Op | Op Op | Op Op | Op Op | |
| 4 36 30. | Audio equipment and supplies | 99 | Op | Op | Op | Op | |
| 4 36 30.10 | Closed circuit audio equipment | 99 | Op | Ор | Op | Op | |
| 36 30.20 | Closed circuit audio equipment Dictating machines | 99 | Op | Op | Op | Op | |
| 36 30.30 | Radios | 99 | Op | Op | Op | Op | |
| 36 30.40 | Record players | 99 | Op | Op | Op | Op Op | |
| 36 30.50 36 30.60 | Tape recorders Telelecture equipment | 99 100 | Op Op | Op Op | Op Op | Op | |
| 36 30.90 | Other audio equipment and supplies | 100 | $\overset{\mathbf{OP}}{\mathbf{Op}}$ | $\overset{\mathbf{o}}{\mathbf{p}}$ | Op | $\tilde{\mathrm{Op}}$ | |
| 36 40. | Audiovisual equipment and supplies | 100 | | | | | |
| 36 40.10 | Closed circuit audio and visual equipment | 100 | Op | Op | Op | Op | |
| 36 40.20 | Filmstrips or slides with sound | 100 | Op | Op | Op | Op | |
| 36 40.30 | Motion pictures (sound) | 100 | Op | Op | Op | Op | |
| 36 40.40 | Television cameras | 100 | Op | Op | Op | Op | |
| 36 40.50 36 40.60 | Television receiving sets Video tape recorder | 100 100 | Op Op | Op Op | Op Op | Op Op | |
| 36 40.90 | Other audiovisual equipment | 100 | Op | Op | Op | Op | |
| 36 50. | Three-dimensional and manipulative equipment and | 100 | 0 | | 0 | | |
| 36 60. | suppliesEquipment and supplies for specific type of activity | 100 100 | Op Op | Op Op | Op Op | Op Op | |
| 36 60.10 | Art equipment and supplies | 100 | Op | Op | Ор | Ор | |
| 36 60.20 | Business equipment and supplies | 100 | Op | Op | Op | Op | |
| 36 60.30 | Driver education equipment and supplies | 100 | Op | Op | Op | Op | |
| 36 60.40 | Homemaking equipment and supplies | 100 | Op | Op | Op | Op | |
| 36 60.50 36 60.60 | Industrial equipment and supplies | 100 | Op | Op | Op Op | Op | |
| 36 60.70 | Music equipment and supplies Physical education equipment and supplies | 100 100 | Op Op | Op Op | Op Op | Op Op | |
| 36 60.80 | Scientific laboratory equipment and supplies | 100 | Op | Op | Op | Op | |
| 36 60.90 | Equipment and supplies for other specific type of | | | | 47 | | |
| | activity | 100 | Op | Op | Op | Op | |



| | Classification of items of information | Definition | Type of instructional program | | | | |
|--------------------------|---|---|-------------------------------|--|-------------------|--------------------|--|
| | Classification of Items of Information | page No. | Elementary | Secondary | Junior college | Adult education | |
| | TAINED CLASS, COURSE, OR COCURRICU-TIVITY—Continued | | | | | | |
| 4 36 70. F 4 36 90. C | Furniture and furnishings Other instructional equipment and supplies | 100 100 | Op Op | Op Op | Op Op | Op Op | |
| 41 00. S | TRUCTURE OF COURSE | 100 | | | | | |
| 41 10.10 | Separate subjects: discrete course | 100 | | Op | | Op | |
| 41 10.20 | Separate subjects: correlated course | 100 | | Op | | Op | |
| 41 10.30 41 10.50 | Broad fields | 100 100 | | Op Op | | | |
| 41 10.90 | Other structure | 101 | | Op | Op | Op | |
| 42 00. P | PRINCIPAL MEDIUM OF INSTRUCTION (OR DIRECTION) | 101 | | | | | |
| 42 10. I | Direct pupil-teacher interaction | 10[| | | | | |
| 42 11. | In-school instruction | 101 | | | | | |
| 42 11.10 | Single teacher | 101 | Op | Op | Ор | Ор | |
| 42 11.20 | Team of teachers | 101 | Op | Op | Op | Op | |
| 42 11.30 | Tutoring | 101 | Op | Op | Op | Op | |
| 42 11.40 42 11.90 | Independent study Other | 101 101 | Op Op | Op Op | Op Op | Op Op | |
| 42 12. | Out-of-school instruction | 101 | | | | 10.5 | |
| 42 12.10 | On-the-job supervision | 101 | | Op | Op | Op | |
| 42 12.20 | Home and/or hospital instruction Other | 101 | Op | Op | Op | Op | |
| 42 12.90 42 20. I | ndirect pupil-teacher interaction | 101 101 | Op | Op | Op | Ор | |
| 42 20.10 | Television. | 101 | Op | Op | Ор | Op | |
| 42 20.20 | Correspondence | 101 | | Op | Op | Op | |
| 42 20.30 | Radio | 101 | Op | Op | | Op | |
| 42 20.40 | TelephoneSelf-teaching materials (programmed instruction) | 101 101 | Op Op | Op Op | Op | Op | |
| 42 20.60 | Recordings | 101 | Op | Op | ОР | Op Op | |
| 42 20.90 | Other | 101 | Op | Op | Op | Op | |
| 43 00. I | PRINCIPAL METHODS OF INSTRUCTION (OR DIRECTION) | 101 | | | | | |
| 43 00.01 | Comparative analysis | 101 | Op | Ор | Op | Op | |
| 43 00.02 | Demonstration. | 101 | Op | Op | Op | Op | |
| 43 00.03 | Diagnosis | 101 | Op | Op | Op | Op | |
| 43 00.04 | Directed observation | 10T 101 | Op | Op | Op | Op | |
| 43 00.05 43 00.06 | Discussion | 101 | Op Op | Op Op | Op Op | Op Op | |
| 43 00.07 | Drill | 102 | $\breve{\mathrm{Op}}$ | $\widetilde{\mathbf{Op}}^{\mathbf{P}}$ | ŏp | Op | |
| 43 00.08 | Experimentation | 102 | Op | Op | Op | Op | |
| 43 00.09 | Field experience | 102 | Op | Op | Op | Op | |
| 43 00.10 | Field trip | $\begin{array}{c} 102 \\ 102 \end{array}$ | Op Op | Op Op | Op Op | Op Op | |
| 43 00.11 43 00.12 | Group workLaboratory experience | 102 | Op | Op | Op | Op | |
| 43 00.13 | Lecture | 102 | Op | Op | Op | Op | |
| 43 00.14 | Listening | 102 | Op | Op | Op | Op | |
| 43 00.15 | Manipulative and tactile activity | 102 | Op | Op | Op | Op | |
| 43 00.16 | Modeling and imitation | $\begin{array}{c} 102 \\ 102 \end{array}$ | Op Op | Op | Op | Op | |
| 43 00.17 43 00.18 | Practice Problem solving | 102 | Op | Op Op | Op Op | Op Op | |
| 43 00.19 | Programmed instruction | 102 | $\breve{\mathrm{Op}}$ | Op | Op | Op | |
| 43 00.20 | Project | 102 | Op | Op | Op | Op | |
| 43 00.21 | Reading | 102 | Op | Op | Op | Op | |
| 43 00.22 | Recitation | 102 | Op | Op | Op | Op | |
| 43 00.23 43 00.24 | SeminarShopwork | 102 102 | Op Op | Op Op | Op Op | Op Op | |
| 43 00.24 | Simulation | 102 | Op | Op | Op | Op | |
| 43 00.26 | Testing | 102 | Op | Op | Op | Op | |
| 43 00.99 | Other methods of instruction | 102 | Op | Op | Op | Op | |



| | | Definition | Type of instructional program | | | | |
|------------|--|-------------|--|------------------------------------|-------------------------------|------------------------|--|
| | Classification of items of information | page No. | Elementary | Secondary | Junior college | Adult education | |
| | ONTAINED CLASS, COURSE, OR COCURRICU-ACTIVITY—Continued | | | | | | |
| LAN | ACIIVII I—Continued | | | | | | |
| 4 44 00. | OTHER PROCEDURES FOR INSTRUCTION (OR DIRECTION) | 102 | | | | | |
| 4 44 10. | Size of group for instruction | 102 | | | | , . | |
| 4 44 10.10 | Large group | 102 | Op | Ор | Op | B. 200 51.52 | |
| 4 44 10.20 | Small group | 102 | Op | Op | $\widetilde{\mathrm{Op}}$ | | |
| 4 44 10.30 | Individual instruction | 103 | Op | $\tilde{\mathrm{Op}}^{\mathrm{P}}$ | Op | | |
| 4 44 20. | Basis for grouping practices | 103 | | | | | |
| 4 44 20.10 | Abilities | 103 | Op | Ор | | | |
| 4 44 20.10 | Achievement | 103 | Op | Op | The second second second | | |
| 4 44 20.30 | Age | 103 | $ \ \breve{\mathrm{Op}}^{\mathrm{P}} $ | $\widetilde{\mathrm{Op}}$ | | | |
| 4 44 20.40 | Interests | 103 | Op | Op | | and a compart of a few | |
| 4 44 20.50 | Personality characteristics | 103 | Op | Op | 0,000,000 | | |
| 4 44 20.60 | Physical development | 103 | Op | Op | for any or any or other to be | | |
| 4 44 20.70 | Sex | 103 | Op | Op | | | |
| 4 44 20.90 | Other basis | 103 | Op | Op | | | |
| 4 44 30. | Pupil participation in planning | 103 | Op | Op | | | |
| 4 44 40. | Provisions for individualization of instruction | 103 | Op | $\widetilde{\mathrm{Op}}$ | | | |
| 4 44 50. | Use of pupil leadership | 103 | Op | Op | | | |
| 4 44 60. | Evaluation procedures | 103 | 1 | | Y2, | | |
| 4 44 60.10 | Observation | 103 | Op | Ор | | | |
| 4 44 60.20 | Teacher-made tests | 103 | Op | Op | The second second second | | |
| 4 44 60.30 | Standardized achievement tests | 103 | Op | Op | | | |
| 4 44 60.40 | Inventories | 103 | Op | Op | | 1 | |
| 4 44 60.50 | Pupil self-evaluation | 103 | Op | Op | | | |
| 4 44 60.90 | Other evaluation procedure | 103 | Op | Op | | | |
| 4 44 90. | Other teaching procedures | 103 | Op | Op | | | |
| 4 55 40. | PUPIL MEMBERSHIP IN SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY (SUMMARY INFORMATION) | 104 | Op | Op | Ор | Op | |
| 4 56 40. | STAFF MEMBERS FOR SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY (SUMMARY INFORMATION) | 104 | Ор | Op | Ор | Ор | |
| 4 59 00. | INFORMATION ABOUT SECTIONS OF SELF- CONTAINED CLASS, COURSE, OR COCUR- RICULAR ACTIVITY (SUMMARY INFOR- MATION) | 105 | Op | Op | Op | Op | |
| 4 99 00. | OTHER INFORMATION ABOUT A SELF-CON- TAINED CLASS, COURSE, OR COCURRICU- LAR ACTIVITY | 105 | Ор | Op | Op | Op | |

ITEMS DESCRIBING A SECTION OR INSTRUCTIONAL SERVICE ACTIVITY 50000 Series

A class (or a section of a course, self-contained class, or cocurricular activity) is a group of pupils assigned to one or more teachers or other staff members for a given period of time for instruction or other activity in a situation where the teacher(s) and the pupils are in the presence of each other. This instruction or activity may be in subject matter of very broad scope as in a self-contained class in the elementary school, in subject matter of very narrow scope as in certain

college-level courses, or in cocurricular activity areas of varying scope. A course or cocurricular activity may comprise a single section or it may comprise several sections, as in a Freshman English course having several classes frequently referred to as "sections;" similarly, a specific type of self-contained class may comprise a single section or it may comprise several sections as in a school having several sections of the fourth grade. Items of information



about the type of self-contained class, course, or cocurricular activity of which a specific section is a part are included under the 40000 Series.

An instructional service is an activity which has as its purpose teaching, aiding teaching, improving the quality of teaching, or directing and managing an aspect of instruction. Among services supporting instruction are resource services for pupils, pupil personnel services, services for the instructional staff, and community services. Items of information about the services provided by a school system or school are included under items 13200 and 23200 of this chapter and under item X3200 of chapter 4.

Categories of information in the 50000 series may be used to identify factors involved in scheduling or describing a specific section or service activity, e.g., class or service identification information, relevant time factors, staff members, pupils, and teaching space or other location. This includes the items that comprise a master schedule for a school. This master schedule is the printed document or other record indicating how pupils and teachers have been assigned into instructional spaces at given times for instruction or other activities. A study of this schedule can provide much information about the school since it indicates, among other things, the size and resources of the school, the scope of courses available to pupils, the whereabouts and activities of specific individuals at given times, and even the school's philosophy.

Scheduling for a service activity is similar to scheduling for a section in that staff members are scheduled to be available to provide their service in a facility or space at given times; it differs in that pupils are scheduled as the need arises or as their needs are determined during the school term, rather than on a predetermined regular schedule for the entire term.

| | | | Definition | Type of instructional program | | | | |
|--------|-------------|--|-------------|-------------------------------|----------------------------------|-------------------|---------------------|--|
| | | Classification of items of information | page No. | Elementary | Secondary | Junior College | Adult education | |
| 5 01 0 | 00 | SPECIFICATIONS FOR SECTION OR INSTRUC- | | | | | | |
| 01 0 | | TION SERVICE ACTIVITY | 58 | Op | Op | Op | Op | |
| 02 0 | 00. | IDENTIFICATION OF SECTION OR SERVICE | 59 | | | | | |
| 02 1 | 9 | Standard descriptive title | 59 | Rec | Rec | Rec | Rec | |
| 02 1 | 2. | | | | | | | |
| 02 1 | | Local descriptive title | 59 | Rec | Rec | Rec | Rec | |
| 02 2 | | Section number or code | 59 | Rec | Rec | Rec | Rec | |
| 02 3 | 32. | Room or space number | 59 | Rec | Rec | Rec | Rec | |
| 02 7 | 70. | Contract for instruction or service | 63 | Rec | Rec | Rec | Rec | |
| 03 0 | 00. | PLACEMENT | 63 | Rec | Rec | Rec | Rec | |
| 03 2 | 22. | Grade placement | 64 | Rec | Rec | Rec | Rec | |
| 03 3 | | Year placement | 65 | Rec | Rec | | | |
| 6 04 0 | 00. | LEVEL OF DIFFICULTY OR ABILITY | 65 | | | | | |
| 04 1 | 10. | Level of difficulty | 65 | Rec | Rec | | a'c x x x a' - p. a | |
| 04 2 | | Level of ability required | 65 | | Op | | | |
| 06 0 | 00. | TIME SCHEDULE FOR SECTION OR SERVICE. | 66 | | | | | |
| 06 6 | 55. | Minutes in class period | 69 | | Op | Op | Op | |
| 06 8 | | Year and term | 70 | Rec | Rec | Rec | Rec | |
| 06 8 | | Frequency of service | 70 | 1100 | 1100 | 100 | 100 | |
| 06 8 | 2 10 | Annually | 70 | Op | Op | Op | Op | |
| 06 8 | | Semiannually | 70 | Op | Op | Op | Op | |
| 06 8 | | | 70 | | | | | |
| | | Monthly | | Op | Op | Op | Op | |
| 06 8 | | Weekly | 70 | Op | Op | Op | Op | |
| 06 8 | | Given days of week | 70 | Op | Op | Op | Op | |
| 06 8 | 32.60 | Daily | 70 | Op | Op | Op | Op | |
| 06 8 | 32.70 | Other schedule | 70 | Op | Op | Op | Op | |
| 06 8 | 32.80 | As required | 70 | Op | Op | Op | Op | |
| 06 8 | 33. | Days of week | 70 | | Op | Op | Op | |
| 06 8 | | Number of days per week | 70 | | Op | Op | Op | |
| 06 8 | | Hour of day or period number(s) of section meeting | | | | | | |
| | | or service | 70 | | Rec | Rec | Rec | |
| 06 8 | 36 . | Time segment for class or course | 70 | | Op | | | |
| 06 8 | | Minutes per week | 70 | Op | $O_{\mathbf{p}}^{\mathbf{r}}$ | Op | Op | |
| 06 8 | 38. | Number of weeks | 70 | Op | Op | Op | Op | |
| 06 8 | | Miscellaneous times for class meetings | 70 | Op | $\mathbf{\widetilde{O}_{p}}^{P}$ | Ŏp | Op | |
| 06 9 | | Other time elements | 71 | $\widetilde{\mathrm{Op}}$ | | | Op | |
| 00 9 | υ. | Other time clements | (1 | Op | Op | Op | Op | |

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| | | | Definition | Type of instructional program | | | | |
|------|-----------------|--|-------------|-------------------------------|-----------|-------------------|-----------------|--|
| | | Classification of items of information | page No. | Elementary | Secondary | Junior College | Adult education | |
| 5 S | ECTIO Contir | N OR INSTRUCTIONAL SERVICE ACTIVITY—nued | | | | | | |
| 5 08 | 00. | EVALUATING AND REPORTING PUPIL PROGRESS | 78 | | | | | |
| | 40. 60. | Mark value for section | 79 80 | Op | Op Op | | | |
| 5 09 | 00. | PUPILS SCHEDULED INTO SECTION OR RECEIVING SERVICE. | 80 | | | | | |
| | 15. | Number of pupils | 80 | Rec | Rec | Rec | Rec | |
| | 20. | Basis for selection or grouping | 80 | Rec | Rec | Rec | Rec | |
| 5 09 | 40. | Pupil background | 81 | Op | Op | Op | Op | |
| | 50. | Pupil background | 81 | Op | Op | Op | Op | |
| 5 09 | 60. | Pupils outside the normal range of ability and per- | 00 | D | D | D | D | |
| 5 09 | 80. | formance | 82 83 | Rec | Rec | Rec | Rec | |
| 5 09 | | Names of pupils | 83 | Rec | Rec | Rec | Rec | |
| 5 09 | | Pupil numbers ENTRANCE INTO SECTION | 83 | Rec | Rec | Rec | Rec | |
| 5 10 | | | 83 | Rec | Rec | Rec | Rec | |
| 5 12 | | COMPLETION PRACTICES | 84 | Op | Op | Op | Op | |
| 5 13 | 20. | INSTRUCTION OF SECTION | 87 | Op | Op | Op | Op | |
| 5 23 | 00. | PLANNED INSTRUCTIONAL OUTCOMES FOR PUPILS | 89 | Op | Op | Op | Op | |
| 5 31 | 10. | TEACHER OR OTHER STAFF MEMBER AS- SIGNED TO SECTION OR SERVICE. | 90 | Rec | Rec | Rec | Rec | |
| 5 34 | 00. | LOCATION OF INSTRUCTION (OR SERVICE) | 96 | Rec | Rec | Rec | Rec | |
| | | | | 1.5 | | | | |
| | 10.11 | Location in given school | 97 | Rec | Rec | Rec | Rec | |
| | 10.12 | Location in other school in same school system | 97 | Rec | Rec | Rec | \mathbf{Rec} | |
| | 10.13 | Located in school in other school system | 97 | Rec | Rec | Rec | Rec | |
| | 10.20 | Home of pupil | 97 | Rec | Rec | Rec | Rec | |
| | 10.30 | Hospital | 97 | Rec | Rec | Rec | Rec | |
| | 10.40 | Business, commercial, or industrial facility | 97 | Rec | Rec | Rec | Rec | |
| | 10.90 | Other nonschool location | 97 | Rec | Rec | Rec | Rec | |
| 5 35 | 20. | INSTRUCTIONAL SPACE FOR SECTION | 97 | Op | Op | Op | Op | |
| 5 36 | 00. | INSTRUCTIONAL EQUIPMENT AND SUPPLIES | 99 | Op | Op | Op | Op | |
| 5 42 | 00. | PRINCIPAL MEDIUM OF INSTRUCTION | 101 | Op | Op | Op | Op | |
| 5 43 | 00. | PRINCIPAL METHODS OF INSTRUCTION | 101 | Op | Op | Op | Op | |
| 5 99 | 00. | OTHER INFORMATION ABOUT A SECTION | 105 | | 0 | | 0 | |
| | | OR SERVICE ACTIVITY | 105 | Op | Op | Op | \mathbf{Op} | |



Definitions of Items of Information About Curriculum and Instruction

This chapter contains the definitions of the items of information which are classified in chapter 3.

The organization of this chapter differs from that of chapter 3 in that the items of this chapter are organized on the basis of category of information (for example: identification, time elements, pupils served, subject matter, location of instruction, and medium of instruction) while the items of chapter 3 are organized on the basis of level of organization (i.e., school system; school; program of studies; selfcontained class, course, or cocurricular activity; and section or service activity).

The numbering system of this chapter reflects its organization. The first place of the number contains an "X," indicating that this place might be used for one or more levels of organization, especially those indicated by the numbers in parentheses following the category heading. (For example, item X 02 11, Name (1, 2) on page 59 is the basis for item 1 02 11 on page 21, School system name, and item 2 02 11 on page 29, Name of school.) The second and third digits of the numbering system represent the major category of information, and provide the basis for the organization of items in this chapter.2 These first 3 digits—with the first place containing a numberprovide the basis for the organization of items in chapter 3. The digits following represent subdivisions of these categories.

Information about curriculum and instruction is essential for individual schools and school systems throughout the United States and its outlying areas. Those items of information which are basic and are therefore recommended as needed for operating most schools and local school systems are identified in this chapter and in chapter 3 by the designation "Rec." Those items of information which are important and may be collected and maintained at the option of individual schools and school systems are identified

by the designation "Op." Additional items may be collected and maintained by individual schools and school systems at their own option as needed for their own purposes. Where a school system has a need to expand its system of information about curriculum and instruction, the expansion should be done in such a way that any additional items of information are readily classifiable under the headings presented in this handbook.

The type of instructional program for which an item of information should be collected and maintained is indicated in this chapter by a designation placed after each item of information. Such designations, repetitions of similar designations presented in chapter 3, are included in this chapter for the sake of convenience and are as follows:

> All—All instructional programs (i.e., the four programs listed below).

Elem—Elementary school instructional pro-

Sec-Secondary school instructional program. JrC—Instructional program for college credit. AdEd—Adult education instructional program.

SPECIFICATIONS (4, 5) X 01 00 Series

Specifications (i.e., detailed description of operational requirements and self-imposed standards) may serve as a basis for making schedules and assignments, evaluating current practices, identifying immediate and long-range needs, and planning.

 ^{1 (1) =} school system; (2) = school; (3) = program of studies; (4) = self-contained class, course, or cocurricular activity; (5) = section, or instructional service activity.
 2 These major categories are outlined on pp. 4 and 10.

³ The use of the designations "Rec" and "Op" in this handbook is not intended to prescribe practice; it is intended to provide guidance to persons and groups establishing or reviewing their system of information about curriculum and instruction. Assigned on the basis of consensus among representatives of groups participating in the development of this handbook (see p. vii), these designations serve to identify items of information considered most important for the sound operation of schools, and probably reflect to an extent the frequency of use of these items.

X 01 00. SPECIFICATIONS FOR CLASS, COURSE, OR SERVICE ACTIVITY (4,5)

Items of information may be included under this heading to describe requirements, or "specifications", for self-contained classes, courses, cocurricular activities, and services supporting instruction. (Op-All) For this purpose, items about subject matter may be drawn from chapters 5 and 6 of this handbook and from the X2100 5 and 6 of this handbook and from the X2100 Series in this chapter. Items about instructional media may be drawn from the X4200 Series. Items about prerequisite entrance requirements for pupils may be obtained from the X1000 Series or from Handbook V, Pupil Accounting for Local and State School Systems. Items about minimum time requirements may be drawn from the X0600 Series. Items about requirements for facilities (including special instructional spaces), equipment, and supplies may be obtained from the X3500 Series, X3600 Series, or from Handbook III, Property Accounting for Local and State School Systems. I Items about required qualification of staff members may be deepen from Handbook IV. staff members may be drawn from Handbook IV, Staff Accounting for Local and State School Systems.⁶

A given section of a self-contained class, course, or cocurricular activity may be described under this heading with additional details about requirements and practices which are unique when contrasted with those of other sections of the same type of self-contained class, course, or cocurricular activity. This may involve considerations such as special or unusual subject matter (see chapters 5 and 6), level of difficulty (the X0400 Series), pupils served (the X0900 Series), time of day (item X0685), length of class periods (item X0665), medium of instruction (the X4200 Series), methal ods of instruction (the X4300 Series), planned instructional outcomes for pupils (the X2300 Series), requirements for equipment and supplies (the X3600 Series), and qualifications of staff members.

IDENTIFICATION (1, 2, 3, 4, 5)X 02 00 Series

An organizational unit or reporting unit may be identified by use of items of information under this heading; e.g., name, identification number, location, type, and control.

X 02 10. NAME OR DESCRIPTIVE TITLE (1, 2, 3, 4, 5)

X 02 11. Name (1, 2)

Any official name by which a school system or school is identified. (Rec-All)

X 02 12. Standard Descriptive Title (3, 4, 5)

Any appropriate standardized title for statewide or other use. (Rec-All)

X 02 13. Local Descriptive Title (3, 4, 5)

The descriptive title used within the local school or school system, which needs to be recorded only if different from the standard descriptive title.

(Rec-All) For example, a program of studies, self-contained class, course, or cocurricular activity might be identified locally—regardless of any applicable standard descriptive title—as the "college preparatory program," "honors program," "fourth grade," "class for the educable mentally retarded," "English I," "freshman English," "classical literature," "photography club," "yearbook," "varsity basketball team," and "student council."

X 02 20. NUMBER OR CODE (1, 2, 3, 4, 5)

Standard Number or Code (1, 2, 4) X 02 21.

Any appropriate standard number or code for statewide or other use. (Rec-All)

X 02 22.

Local Number or Code (2, 3, 4)

The number or code used within the local school or school system, recorded only if different from the standard number or code. (Rec-All)

Section Number or Code (5)

The number or code, if any, by which a particular section is identified among the various sections comprising a specific type of self-contained class, course or cocurricular activity (as identified under item X0223).

X 02 30. LOCATION (1, 2, 5)

X 02 31. Geographical Location (1, 2)

Any designation for geographical location by which a school system or school is identified, e.g., county, or political district. (Op-All)

X 02 32. Room or Space Number (5)

Any designation for the room or space utilized by a section or service activity. (Rec-All) See also the X3400 Series, Location of Instruction (or Service) and the X3500 Series, Facilities.

X 02 40. TYPE OF ORGANIZATIONAL UNIT (1, 2, 3, 4)

X 02 41.

Type of School System? (1)

The type of organizational unit operating one or more schools, or submitting a report, e.g., a State department of education, an intermediate administration unit, a local school system, and a segment of a local school system.

X 02 41.10 State Department of Education—The State agency exercising leadership, service, and regulation responsibilities in regard to elementary and secondary public education and such other aspects of education in the State as lie within the scope of its legal authority. (Rec) (The term "State department of education" is often used interchangeably with the term "State education agency" and in this connection includes the State board of education, the chief State school officer, and their staffs.

X 02 41.20 Other State Education Agency—An organization, other than the State department of education, established by law for carrying out a specified part of the educational responsibilities of the State. (Rec) (For illustration, in some States a separate organization has been established to administer higher education.)

X 02 41.30 Intermediate Administrative Unit-An administrative unit smaller than the State which exists primarily to provide consultative, advisory, administrative, or statistical services to local basic administrative units, or to exercise certain regulatory and inspectoral functions over local basic administrative units. (Rec) This includes intermediate administrative units referred to as county intermediate units or supervisory unions. The type of intermediate administrative unit may be specified.

⁴ John F. Putnam and George G. Tankard, Jr., Pupil Accounting for Local and State School Systems. Washington: U.S. Government Printing Office, 1964. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook V, Bulletin 1964, No. 39.

⁵ Paul L. Reason and George G. Tankard, Jr., Property Accounting for Local and State School Systems. Washington: U.S. Government Printing Office, 1959. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook III, Bulletin 1959, No. 22.

⁶ Allan R. Lichtenberger and Richard J. Penrod, Staff Accounting for Local and State School Systems. Washington: U.S. Government Printing Office, 1965, U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook IV, Bulletin 1965, No. 18.

⁷ A definition of "School System" may be found on page 21.

X 02 41.40 Local Public School System—An administrative unit at the local level which exists primarily to operate schools or to contract for school services. (Rec) Public school systems include common, city, independent, consolidated, union, community, town, township, jointure, and county-unit school districts; they include districts operating single schools, e.g., area schools for vocational or special education operated by separate boards of education. For reporting purposes, a system of schools operated by a branch of the Federal Government—for children such as those residing on Indian reservations or in the Trust Territory of the Pacific Islands, or for dependents of armed services personnel—is reported under this heading. The local school system may be described further according to type of organization, as illustrated above, and/or according to type of schools operated by indicating one of the first four items following, as appropriate, or the proper combination of the last six items (additional items of information descriptive of schools are included in the 20000 Series):

X 02 41.41 X 02 41.42 Does Not Operate Any School—(Rec) Operates Area School for Vocational or Technical Education Only—(Rec) Operates Area School for Special Education X 02 41.43 Only (Rec) Operates a Single One-Teacher School—(Rec)
Operates Elementary School(s)—(Rec) X 02 41.44 X 02 41.51 Operates Middle School(s)—(Rec) X 02 41.52 Operates Secondary School(s)—(Rec)
Operates Junior College—(Rec)
Provides Adult Education—(Rec) X 02 41.53 X 02 41.54 X 02 41.55 X 02 41.59 Operates Other Type of School—(Rec)

X 02 41.60 Segment of Local Public School System—A segment of a local public school system, as identified by a designation such as those included under items X0260.20 to X0260.40. (Rec)

X 02 41.70 Nonpublic School System—E.g., a system of church-related schools, including a dioscesan school system. (Rec)

X 02 41.90 Other Unit—An administrative unit operating schools, or a reporting unit, other than those described in items X0241.10 to X0241.70. (Rec) Any such unit should be specified.

X 02 42. Type of School Organizational Arrangement (2)

The general type of school⁸ or other organizational arrangement providing instruction—e.g., an elementary school, a middle school, a secondary school, a junior college, and an adult school—or a more specific subdivision of one of these general categories. In addition, a school may be identified as a day school or residential school, as an area school, and as a vocational and/or technical school. Schools conducted during the summer school term may be identified by combining the appropriate designation for organizational arrangement with a designation from under item X0611 or item X0630 for the time element.

X 02 42.10 Elementary School—A school classified as elementary by State and local practice and composed of any span of grades not above grade eight. (Rec-Elem) Elementary schools conducted during the regular school term are identified initially under item X0242.10; organizational patterns or subdivisions within these schools may be identified under items X0242.11 to X0242.14.

X 02 42.11 Preprimary Level—A distinct organization for classes within an elementary school for

X 02 42.12 Primary Level—A distinct organization within an elementary school for pupils in the primary grades or years, usually grade 1 through grade 3 or the equivalent. (Op-Elem) In some instances, the preprimary and primary levels are combined.

X 02 42.13 Intermediate Elementary Level—A distinct organization within an elementary school for pupils in the intermediate elementary grades or years, usually grades 4, 5, and 6 or their equivalent. (Op-Elem)

X 02 42.14 Upper Elementary Level—A distinct organization within an elementary school for pupils in the upper elementary grades or years, usually grades 7 and 8 or their equivalent. (Op-Elem)

X 02 42.20 Middle School—A separately organized and administered school usually beginning with grade 5 or 6 or its equivalent and including at least three grades or years. Most middle schools presume, in ultimate plan if not in present reality, a 4-year high school for the grades or years which follow, as in a 4-4-4 plan or a 5-3-4 plan. (Rec-Middle School)

X 02 42.30 Secondary School—A school comprising any span of grades beginning with the next grade following an elementary or middle school and ending with or below grade 12. Secondary schools conducted during the regular school term are identified under items X0242.31 to X0242.35 and X0242.39.

X 02 42.31

Junior High School—A separately organized and administered secondary school intermediate between the elementary and senior high schools, usually including grades 7, 8 and 9 (in a 6-3-3 plan) or grades 7 and 8 (in a 6-2-4 plan). (Rec-Sec)

X 02 42.32

Five- or 6-year High School—A secondary

X 02 42.32 Five- or 6-year High School—A secondary school served by one faculty organized under one principal which includes more than four grades, is not divided on a junior and senior basis, and is not preceded by a junior high school in the same school system. (Rec-Sec)
X 02 42.33 Junior-Senior High School—A secondary school organized on a junior-senior basis and

school organized on a junior-senior basis and administered under one head as one unit. This includes secondary schools organized on a 2-year junior and a 4-year senior high school plan, a 3-year junior and a 3-year senior high school plan, and any other plan based on a junior-senior organization. (Rec-Sec)

X 02 42.34 Senior High School—A secondary school offering the final years of high school work necessary for graduation and invariably preceded by a junior high school. (Rec-Sec)

X 02 42.35 Four-year High School—A 4-year secondary school immediately following the elementary school (as in an 8-4 plan) or a middle school. This includes 4-year vocational and technical high schools. (Rec-Sec)

X 02 42.39 Other Secondary School—A secondary school conducted during the regular school term, other than those identified under items X0242.31 to X0242.35, such as the incomplete regular high school and any newly organized high school that ultimately will have additional grades. (Rec-Sec) A secondary school exclusively for adults and youth beyond the age of compulsory school attendance should not be included here but, rather, should be included under item X0242.50, Adult School or Other Adult Education Instructional Organization.

groups of children during the year or years preceding the primary level. (Rec-Elem)

⁸ A definition of "School" may be found on page 29.

Junior College—An institution of higher education which offers usually the first 2 years of college instruction, frequently grants an asso-ciate degree, and does not grant a bachelor's degree. It is either an independently organized institution (public or nonpublic) or an institu-tion which is a part of a public school system or an independently organized system of junior colleges. Offerings include college transfer courses and programs; and/or vocational, technical, and semiprofessional occupational programs or general education programs at the post-secondary instructional level; and may also include continuing education for adults as

well as other community services. (Rec-JrC)

Junior colleges may be identified further according to the following designations (with any additional identification of public or non-public control made by the use of appropriate categories under item X0250):

Public Junior College—Including the 2-year public community college and the 2-year State, city, or municipal college, and excluding (for reporting purposes) technical institutes and branch colleges. (Rec-JrC) A public junior colleges is referred to as a "community colleges". X 02 42.41 public junior college is referred to as a "com-munity college" when it is operated by the board of education of a local basic administrative unit and has an instructional program adapted in content, level, and schedule to the needs of the local community.

Nonpublic Junior College—Including the in-dependent or church-related institution, and X 02 42.42 excluding (for reporting purposes) technical institutes and branch colleges. (Rec-JrC)

X 02 42.43 Two-Year Technical Institute—An institution offering instruction primarily in one or more of the technologies at the postsecondary instructional level. (Rec-JrC)

X 02 42.44 Two-year Branch College-A division of an institution of higher education, which offers the first 2 years of college instruction and which is located in a community different from that of its parent institution and beyond a reasonable commuting distance from the main campus of the parent institution. (Rec-JrC)

Other Junior College—Any junior college other than those identified under items X0242.41 to X0242.44. (Rec-JrC) Any such X 02 42.49 institution should be specified.

X 02 42 50 Adult School or Other Adult Education Organizational Arrangement—A school only for adults and youth beyond the age of compulsory school attendance, or some other separate adult education organizational arrangement within a school system, college, or other agency or institution. including a technical institute or area vocational school. A sheltered workshop providing vocational training may be included under this heading. (Rec-AdEd)

Day School—A school attended by pupils during a part of the day, as distinguished from a residential school where pupils are boarded and X 02 42.81 lodged as well as taught.

Residential School—An educational institution in which pupils are boarded and lodged as well X 02 42.82 as taught.

X 02 42.83 Area School-A public school which has been approved to provide instruction in a specific instructional area to residents of a State, a county, a major city, or another designated geographic area usually larger than one local basic administrative unit. (Op-All)

Vocational and/or Technical School—A school which is separately organized under the direc-X 02 42.84 tion and management of an administrator (such as a principal) for the primary purpose of offering education and training in one or more semiskilled, skilled, or technical occupations. (Op-Sec, JrC, AdEd)

Other School-A school which cannot be de-X 02 42.90 scribed as an elementary school, middle school, secondary school, junior college, or adult school or other adult education instructional organization. (Rec-All) Any such school should be specified.

X 02 43. Type of Program of Studies⁹ (3)

An indication of the general purpose or content of the program of studies, e.g., typical local elementary program, college preparatory program, occupational program, and transfer program.

Typical Local Elementary Program—The general type of program of studies provided for most elementary school pupils of the local school system. (Rec-Elem) X 02 43.11

Typical Local Middle School Program—The general type of program of studies provided for most middle school pupils of the local school system. (Rec-Middle School) X 02 43.12

Typical Local Junior High School Program— The general type of program of studies provided for most junior high school pupils of the X 02 43.13 local school system. (Rec-Sec)

Program of Special Education for Handicapped Pupils—A program of studies designed pri-X 02 43.20 Pupils—A program of studies designed primarily to help improve or overcome physical, mental, social, and/or emotional handicaps. (Rec-All) Each pupil in such a program in a secondary school (other than a junior high school) or junior college should be identified under both this category and a category for another appropriate type of program of studies, as indicated by items X0243.31 to X0243.51.

College Preparatory Program—A secondary school program of studies designed primarily X 02 43.31 school program of studies designed primarily to prepare pupils for higher education. (Rec-Sec) Areas of specialization may be identified under item X2140. If desired, variations within college preparatory programs may be specified to indicate the general type of college programs for which pupils are preparing a g. a 4 years for which pupils are preparing, e.g., a 4-year liberal arts program, a 4-year scientific or engineering program, and a 2-year technical

engineering program, and a 2-year technical program.

Courses designed to enable pupils to enter college with advanced placement in given subject areas and, possibly, with some college credit are identified under item X0245.22, Advanced Placement Course. When a program of studies including several advanced placement of studies including several advanced placement courses is designed to enable pupils to enter college with advanced standing (e.g., as a second-semester freshman or with sophomore status), it may be referred to as an "advanced standing program."

Provisions for Postgraduate Studies-Provisions, X 02 43.32 within a secondary school, for additional high school study after graduation. (Rec-Sec)

X 02 43.41 General Education Program-A secondary school, junior college, or adult education program of studies designed primarily to prepare pupils for the common activities of men as citizens, family members, and workers, and which is contrasted with specialized education which prepares for an occupation. (Rec-Sec, JrC, AdEd) For reporting purposes, pupils in college

⁹ A definition of "program of studies" may be found on page 42.

transfer programs having instructional content of a general education or liberal arts nature should be included under item X0243.51 rather than under this category.

X 02 43.42 Occupational Program—A secondary school, junior college, or adult education program of studies designed primarily to prepare pupils for immediate employment or upgrading in an occupation or cluster of occupations. (Rec-Sec, JrC, AdEd) Additional information about such a program should be provided by using appropriate categories under items X2141, Area of Major Specialization; X2142, Area of Minor Specialization; X2143, Type of Occupational Program; and X2144, Occupational Goal of Pupils. For reporting purposes, pupils in college transfer programs having instructional content of an occupational nature should be included under item X0243.51 rather than under this category.

X 02 43.51 Transfer Program—A program of studies, at the post-secondary instructional level, designed primarily to yield credits which are normally acceptable by four-year colleges and universities at full (or virtually full) value toward a bachelor's degree. (Rec-JrC) Pupils in transfer programs may be further identified, according to the content of their studies, by using appropriate categories under items X2141, Area of Major Specialization; X2142, Area of Minor Specialization; and X2144, Occupational Goal of Pupils.

X 02 43.61 Provision for Free Selection—Provisions enabling pupils to select courses for study without primary concern for the articulation or interrelationships among courses. (Rec-AdEd) For statistical purposes, provisions within a secondary school for free selection of courses by high school postgraduates would be included under item X0243.32, Provisions for Postgraduate Studies.

X 02 43.71 Rehabilitation Program—A program of studies and services designed primarily to restore in whole or in part the ability of disabled individuals to perform biologically, psychologically, or sociologically as persons not disabled. (Rec-All) This includes rehabilitation center programs and vocational rehabilitation programs for restoring individuals to economic self-sufficiency through education or retraining.

X 02 43.90 Other Program of Studies—A program of studies having a general purpose and nature other than those identified under items X0243.11 to X0243.71. (Rec-All) Any such program of studies should be specified.

X 02 44. Combination of Courses (3)

A combination or sequence of courses, or segments of subject matter, larger than a single course but smaller than an entire program of studies as described under the 30000 Series of chapter 3, e.g., a humanities sequence including given courses in literature, music, art, and social sciences; or an automotive mechanics sequence including given courses in body and fender repair, engine mechanics, and applied physics. (Op-Sec, JrC, AdEd) Descriptions of the elements of such a combination of courses, or segments of subject matter, may be generated from the items of information in the 30000 Series of items of chapter 3 and in chapters 5 and 6.

X 02 45. Type of Class Organizational Arrangement (4)

A class is a group of pupils assigned to one or more teachers for a given period of time in a situation where the teacher(s) and the pupils are in the presence of each other. Thus, a single section of a self-contained class, course, or cocurricular activity is considered to be a class.

- X 02 45.10 Self-contained Class—A class having the same teacher for all or most of the daily school session. (Rec-All)
- X 02 45.20 Course—An organization of subject matter and related learning experiences provided for the instruction of pupils on a regular or systematic basis, usually for a predetermined period of time (e.g., a semester, a regular school term, and a 2-week workshop). Credit toward graduation or completion of a program of studies generally is given pupils for the successful completion of a course. (Rec-All)
- X 02 45.21 Vocational Course—A course approved under State plan requirements for vocational and technical education. (Rec-Sec, JrC, AdEd)
- X 02 45.22

 Advanced Placement Course—A course intended to provide upper-grade secondary school pupils with college-level instruction to enable them, frequently upon the successful completion of an examination, to bypass the usual initial college course in this subjectmatter area and begin their college work with a more advanced course and possibly with some college credit. (Rec-Sec)
- X 02 45.23

 General Continuation Class—A part-time class—
 for persons under 18 years of age who have left
 full-time instruction to enter the labor force—
 providing instruction designed primarily to
 increase civic intelligence rather than to develop
 specific occupational competence. (Op-AdEd)
- X 02 45.29 Other Course—A course other than those described under items X0245.21 to X0245.23. (Op-All) Such a course may be specified.
- X 02 45.30 Cocurricular Activity—An activity, under the sponsorship and/or direction of the school, of the type for which participation generally is not required and credit generally is not awarded. (Rec-Sec, JrC; Op-Elem, AdEd) See also COCURRICULAR ACTIVITIES on pages 47 and 242.

X 02 50. CONTROL (1, 2)

The type of governmental agency or other agency having primary legal control of a school system or school.

X 02 51. Public Control (1, 2)

Situations in which the program of a school system or school is under the control of a public agency, is supported primarily by public funds, and is operated by publicly elected or appointed school officials. Among types of governmental agencies having legal control of school systems and schools are the local education agency (sometimes referred to as the local basic administrative unit or local public school district), the city or

municipal government, township government, county government, State government, and Federal Government.

X 02 51.10 Local Education Agency—(Rec-All)

X 02 51.20 City or Municipal Government—(Rec-All)

X 02 51.30 Township Government—(Rec-All)

X 02 51.40 County Government—(Rec-All)

X 02 51.50 Other Local Public Agency—A local public agency not identified by items X0251.10 to X0251.40 and not a combination of any of these, e.g., a local public agency established to operate a program under specific Federal legislation. (Rec-All)

X 02 51.60 State Government—(Rec-All)

X 02 51.70 Federal Government—(Rec-All)

X 02 51.80 Combination—A combination of public agencies identified under items X0251.10 to X0251.90,



e.g., a group of county school systems operating a junior college or an area vocational school. (Rec-All)

Other Public Agency—A type of public agency other than those identified in items X0251.10 to X0251.70. (Rec-All) Any such type of agency X 02 51.90 should be specified.

X 02 52.

Nonpublic Control (1, 2)
Situations in which the program of a school system or school is under the legal control of an agency which is not a part of State government, a subdivision of the State government, or the Federal Government, usually is supported primarily by other than public funds, and the operation of whose program rests with other than publicly elected or appointed officials. Among types of nonpublic or private agencies having legal control of school systems and schools are religious groups and groups which are independent of both church and State.

X 02 52.10 Independent of Church, Nonprofit—A nonpublic agency, independent of any church, which operates a school system (or school) on a non-profit basis. (Rec-All)

X 02 52.20 Religious Group—An agency, affiliated with a religious group, which operates a school system (or school). (Rec-All)

Proprietary—A nonpublic agency independent of any church, or an individual, that operates a school system (or school) for business profit. X 02 52.30 (Rec-All)

X 02 53. Combined Public and Nonpublic Control (1, 2)

A situation in which public and nonpublic agencies jointly provide for the support or the operation of a school or school system, or for both support and operation. The nature of these agensupport and operation. The nature of these agencies should be indicated according to the designations of items X0251 and X0252. (Rec-All) To illustrate, in a given settlement school or vocational school the land and buildings might be privately owned, most of the equipment and supplies provided by the local education agency, a portion of the library books provided by the propublic agency, the principal and most teachers nonpublic agency, the principal and most teachers remunerated by the local education agency, and the librarian, art teacher, and music teacher remunerated by the nonpublic agency.

X 02 54. Control by an Institution (1, 2)

Control by an organization—such as a school, local church, or hospital—which is established to serve a social purpose or end. In addition, the control of the institution itself should be specified according to items X0251, X0252, and X0253.

X 02 54.10 College or University-An institution of higher education which has legal control of a school or school system. (Rec-All)

Other Institution—An institution, other than an institution of higher education, which has legal X 02 54.90 control of a school or school system, e.g., a hospital, corrective institution, or orphanage. (Rec-All) The nature of any such institution should be specified.

X 02 59. Other Control (1, 2)

A type of institution or agency having primary legal control of a school system or school, other than those institutions, agencies, and arrangements, identified under items X0251 to X0254. (Rec-All) Any such type of agency, institution, or arrangement should be specified.

X 02 60. SCOPE OF CENTRAL ADMINISTRATION (1)

The extent to which the administration of curriculum and instruction of the school system is centralized for an entire system or for a portion of the system.

X 02 60.10 Central Administration for Entire School System -Administration of curriculum and instruction centralized for the entire school system. (Rec)

Administration for Geographic Areas—Administration of curriculum and instruction organized X 02 60.20 to provide for all schools, or all schools of a given type, located within the various geo-graphic subdivisions of the entire area served by the school system. (Rec)

Central Administration for Given Level or Type of School—Administration of curriculum and X 02 60.30 instruction organized to provide for all the school system's instruction of a given level—e.g., elementary, secondary, or postsecondary in-structional level—or for all the system's schools of a given type, e.g., elementary schools or secondary schools. This item may be used along with item X0260.20 to indicate that curriculum and instruction are administered centrally for a given level or type of school within the various geographic subdivisions of the area served by the school system. (Rec)

Autonomous Schools—A school system comprised of a number of schools which are basically X 02 60.40 independent or self-governing in terms of curriculum and instruction. (Rec)

X 02 60.50 Single School-A school system comprised of a single school.(Rec)

X 02 60.90 Other Administrative Arrangement-An arrangement other than those described in items X0260.10 to X0260.50. (Rec) Any such arrangement should be specified.

CONTRACT FOR INSTRUCTION OR SERV-X 02 70. ICE (3, 4, 5)

An indication that instruction or an instructional service is provided through a contractual relationship between a given school or school system and another school, school system, or other agency.

X 02 71.10 Contract Awarded to Another Agency—A contract to perform instructional services is awarded by the given school or school system to another agency. (Rec-All)

X 02 71.20 Contract Awarded to This School, School System, or Agency—A contract to perform instructional services is awarded to the given school, school system, or agency by another agency. (Rec-All)

Source or Recipient of Contract (3, 4, 5) X 02 72.

Information used in conjunction with the information under items X0271.10 and X0271.20, to indicate the nature of the agency awarding the contract to, or receiving the contract from, the given school, school system, or other agency.

X 02 72.10

X 02 72.20 X 02 72.30

Public School or School System—(Op-All)
Other Public Agency—(Op-All)
Nonpublic School or School System—(Op-All)

X 02 72.40 Other Nonpublic Agency—(Op-All)

PLACEMENT (1, 2, 4, 5) X 03 00 Series

The items of information under this heading may be used to describe ages of pupils, grades, years, and the sequence of courses or classes.

X 03 10. AGE (1, 2)

X 03 10.80 Less than 1 year old

1 year old 2 years old X 03 10.01 X 03 10.02

X 03 10.03 3 years old

X 03 10.04 4 years old



03 PLACEMENT—Continued X 03 10.05 5 years old X 03 10.06 6 years old X 03 10.07 7 years old X 03 10.08 8 years old 9 years old 10 years old X 03 10.09 X 03 10.10 X 03 10.11 11 years old X 03 10.12 12 years old X 03 10.13 13 years old X 03 10.14 14 years old X 03 10.15 15 years old X 03 10.16 16 years old X 03 10.17 17 years old X 03 10.18 18 years old X 03 10.19 19 years old X 03 10.20 20 years old 21 years old X 03 10.21 Over 21 years old (Specify.) X 03 10.30 X 03 10.40 No compulsory attendance requirement X 03 10.50 No permissive attendance provision X 03 10.99 No age limit X 03 11. Span of Compulsory Attendance Ages (1) The youngest and oldest ages at which children. youths, and adults normally are required to attend the schools of the school system.¹⁰ (Rec) Designations for ages are included under item X0310. The date on which these ages are determined may be specified. Span of Permissive Attendance Ages (1, 2) The youngest and oldest ages at which children, youths, and adults normally are permitted to attend school. (Rec-All) Exceptions to the normal X 03 12. ages of permissive attendance should be specified, with reference made to groups of pupils involved and their span of permissive attendance ages. Designations of ages are included under item X0310; designations for pupil groups are included under item X0900. The date on which ages are determined may be specified. GRADE (1, 2, 4, 5)A grade is a designation applied to that portion of the curriculum which represents the work of one regular school term. It is identified by a designation such as kindergarten, grade I, or grade 10. In some situations—often referred to as "ungraded"—grade designations are not used; designations frequently appropriate in such situations are included under item X0330, Year.

X 03 20.93 Prekindergarten, Age 3—A group or class organized to provide educational experiences for children during the year immediately preceding prekindergarten, age 4. (Rec-Elem) Such a group sometimes is referred to as "nursery school."

X 03 20.92 Prekindergarten, Age 4—A group or class organized to provide educational experiences for children during the year immediately preceding kindergarten. (Rec-Elem) Such a group sometimes is referred to as "nursery school."

X 03 20.91 Kindergarten—A group or class organized to provide educational experiences for children during the year immediately preceding first grade. (Rec-Elem)

X 03 20.01 Grade 1—The first of the primary grades. This often is the first grade of compulsory school attendance and follows kindergarten, where kindergarten is provided. (Rec-Elem)

X 03 20.02 Grade 2—(Rec-Elem)

- X 03 20.03 Grade 3—A grade which often is considered to be the final grade of the primary grades. (Rec-Elem)
- X 03 20.04 Grade 4—A grade which often is considered to be the initial grade of the intermediate grades. (Rec-Elem)
- X 03 20.05 Grade 5—The grade which is the initial grade of the middle school in a 4-4-4 plan. This is the final grade of the elementary school in a 5-3-4 plan. (Rec-Elem)
- X 03 20.06 Grade 6—A grade which often is considered to be the final grade of the intermediate grades. This is the final grade of the elementary school in a 6-3-3, a 6-6, or a 6-2-4 plan. (Rec-Elem)
- X 03 20.07 Grade 7—A grade which often is the initial grade of the upper elementary grades, as in an 8-4 plan. This is the initial grade of the junior high school in a 6-3-3 or 6-2-4 plan. (Rec-Elem, Sec; Op-AdEd)
- X 03 20.08 Grade 8—The grade which is the final grade of the elementary school in an 8-4 plan, of junior high school in a 6-2-4 plan, or of the middle school in a 4-4-4 or 5-3-4 plan. (Rec-Elem, Sec; Op-AdEd)
- X 03 20.09 Grade 9—The grade which is the final grade of junior high school in a 6-3-3 plan, the initial grade of senior high school in a 6-2-4 plan, or the initial grade of the 4-year high school in an 8-4 plan. (Rec-Sec; Op-AdEd)
- X 03 20.10 Grade 10—The grade which is the initial grade of senior high school in a 6-3-3 plan. (Rec-Sec; Op-AdEd)
- X 03 20.11 Grade 11—(Rec-Sec; Op-AdEd)
- X 03 20.12 Grade 12—The grade which usually is the final grade of secondary school. (Rec-Sec; Op-AdEd)
- X 03 20.13 Grade 13—The grade which usually is the initial grade of the college level. (Rec-JrC; Op-AdEd)
- X 03 20.14 Grade 14—The grade which usually is the final grade in the junior college. (Rec-JrC)
- X 03 20.15 Grade 15—(Rec-JrC)
- X 03 20.16 Grade 16—The grade which usually is considered the final year of the 4-year college. (Rec)
- X 03 20.20 Grade 16+—The grade or grades following the sixteenth grade, usually involving work at the college graduate level. (Rec)
- X 03 20.30 Ungraded—A situation in which grade designations are not used. (Rec-Elem, Sec) In some such instances, designations for "Year" (see item X0330) may be used for purposes such as indicating the amount of time pupils usually spend in an ungraded school or an ungraded subdivision of a school.
- X 03 21. Lowest and Highest Grades (1, 2)

 The lowest and highest grades within a school system or school, or the grade equivalent, as indicated by the designations of item X0320. (Rec-All)
- X 03 22. Grade Placement (4, 5)

 An identification of the grade standing, or the grades, of all or most of the pupils in a course, self-contained class, or section. (Rec-All) Designations for grades are included under item X0320. Those situations in which grade designations are not used may be identified under item X0330.
- X 03 30. YEAR (2, 4, 5)

In some situations (referred to as "ungraded"), grade designations are not applied to that portion of the curriculum representing the work of one regular school term. An ungraded school or ungraded organizational level of a school (e.g., ungraded primary level) may be described in part by the number of years most pupils spend in



¹⁰ Exceptions, describing pupils not in local public elementary or secondary schools during their years of compulsory school attendance, may be identified with designations from Handbook V, Pupil Accounting for Local and State School Systems, pages 57 and 58.

03 PLACEMENT—Continued

the school or level. Current "grade status" of pupil groups in an ungraded situation may be approximated by indicating the number of years most pupils of each group have been in the school or organizational level. (Rec-Elem, Sec)

| X 03 30.10 | 1 year or first year |
|------------|--|
| X 03 30.20 | 2 years or second year |
| X 03 30.30 | 3 years or third year |
| X 03 30.40 | 4 years or fourth year |
| X 03 30.50 | 5 years or fifth year |
| X 03 30.60 | 6 years or sixth year |
| X 03 30.70 | 7 years or seventh year |
| X 03 30.80 | 8 years or eighth year |
| X 03 30.90 | 9 years or ninth year and above—(Specify.) |
| | |

X 03 31. Lowest and Highest Years (2)

In ungraded situations, designations which may be used to indicate the number of years, and to identify which years, customarily are spent within a given school, or organizational subdivision of a school, as, for example, in an elementary school, in the primary grades of an elementary school, or in a secondary school. (Rec-Elem, Sec) Designations are included under item X0330.

X 03 32. Year Placement (4, 5)

In ungraded situations, an identification of the number of years elapsing since most members of a pupil group began instruction in a school or in an organizational subdivision of the school, e.g., first year, third year, and seventh year. (Rec-Elem, Sec) Designations for years are included under item X0330.

X 03 40. OTHER PLACEMENT (2)

A series of designations other than those presented in items X0320 and X0330 which are indicative of stages or intervals of pupil status in school. (Rec-All) Any such designations—appropriate, for example, in describing the eligibility for education of certain exceptional children, youth, and adults—should be specified.

X 03 50. POSITION IN SEQUENCE (4)

The relative position in sequence of any course or self-contained class which is a part of a series of courses or classes.

X 03 51. Number of Courses or Classes in Sequence (4)—(Op-All)

```
X 03 51.01
             1 Course or Class
X 03 51.02
             2 Courses or Classes
X 03 51.03
             3 Courses or Classes
X 03 51.04
             4 Courses or Classes
X 03 51.05
             5 Courses or Classes
X 03 51.06
             6 Courses or Classes
X 03 51.07
             7 Courses or Classes
X 03 51.08
             8 Courses or Classes
X 03 51.09
             Other Number of Courses or Classes—(Specify.)
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X 03 52. Position of Course or Class in Sequence (4)

The position of the course or self-contained class in relation to the other courses or classes of

the sequence. (Op-All)

| X 03 52.01 | 1st Course or Class |
|------------|---------------------------|
| X 03 52.02 | 2nd Course or Class |
| X 03 52.03 | 3rd Course or Class |
| X 03 52.04 | 4th Course or Class |
| X 03 52.05 | 5th Course or Class |
| X 03 52.06 | 6th Course or Class |
| X 03 52.07 | 7th Course or Class |
| X 03 52.08 | 8th Course or Class |
| X 03 52.09 | Other Position—(Specify.) |
| | |

LEVEL OF DIFFICULTY OR ABILITY (4, 5) X 04 00 Series

The general difficulty of a course, self-contained class, or cocurricular activity, or of the various sections of the course, or class; and the general level of ability required for successful participation in the activity. If appropriate and desired, the level of difficulty may be described also by use of a grade designation included under item X0320. Modifications in marking practices which reflect differing levels of difficulty should be described.

X 04 10. LEVEL OF DIFFICULTY (4, 5)

- X 04 10.10 Average Difficulty—The level of difficulty appropriate for most of the pupils of the school system of a given age group. (Rec-Elem, Sec)
- X 04 10.20 Above-average Difficulty—Greater than average difficulty, including advanced placement courses and special courses or classes for the gifted and/or talented. (Rec-Elem, Sec)
- X 04 10.30 Below-average Difficulty—Somewhat less than average difficulty, but above the level of work provided for pupils who are mentally retarded. (Rec-Elem, Sec)
- X 04 10.40 For Mentally Retarded—A level of work appropriate for pupils who are mentally retarded. If desired, this general level could be delineated further according to the degree of retardation of pupils, e.g., for pupils who are educable mentally retarded or trainable mentally retarded. (Rec-Elem, Sec)
- X 04 10.80 Not Applicable—An indication that a designation for level of difficulty is not considered appropriate or applicable for a given course or class. (Rec-Elem, Sec)

X 04 20. LEVEL OF ABILITY REQUIRED (4, 5)

The general level of ability required for successful participation in a cocurricular or other activity.

- X 04 20.10 Average Ability—The level of ability of most pupils of the school system of a given age group. (Op-Sec)
- X 04 20.20 Above-average Ability—Greater than average ability, including special activities for the gifted and/or talented. (Op-Sec)
- X 04 20.30 Below-average Ability—Somewhat less than average ability. (Op-Sec)
- X 04 20.80 Not Applicable—An indication that no particular level of ability is required for successful participation in a given activity. (Op-Sec)

APPROVAL AND/OR ACCREDITATION (1, 2, 3, 4) X 05 00 Series

Items of information under this heading may be used to describe the accreditation status of a school system, school, program of studies, or course—or its approval status, or both—and to identify the approving or certifying agency. Approval of a unit of organization (e.g., a school system, school, program of studies, and course) is the official act of the State department of education, or another recognized agency having official authority, certifying that the unit of organization complies with the legal requirements or prescribed standards for the operation of such units. Accreditation of a unit of organization is an official decision by the State department of educa-



05 APPROVAL AND/OR ACCREDITATION— Continued

tion, or another recognized agency having official authority, that, in its judgment, the unit has met the established standards of quality (which may or may not have legal status).

X 05 10. APPROVAL STATUS (1, 2, 3, 4)

- X 05 10.10 Approved—The unit of organization is approved. (Rec-All) If more than one type of approval is available, the type of approval granted should be specified. As applied to a course, this includes vocational and technical education courses approved under the State plan.
- Warning or Probation—The unit of organization, currently approved, may have approval withdrawn by the approving agency unless certain specified deficiencies are corrected. (Rec-All) A time limitation usually is imposed for the correction of such deficiencies. X 05 10.20 for the correction of such deficiencies.
- Approval Denied-Application has been made X 05 10.30 for approval, but approval was denied by the approving agency. (Rec-All)
- Application in Process—Application has been made for approval but action on this application X 05 10.40 has not been completed. (Rec-All)
- Approval Not Requested—Approval has not been requested. (Rec-All) As applied to a X 05 10.50 course, this includes courses meeting State plan requirements for vocational and technical education but for which approval has not been
- Approval Not Available—Approval is not available for the type of unit of organization. (Rec-X 05 10.60

X 05 20. APPROVING AGENCY (1, 2, 3, 4)

Information about the agency which can or does grant approval to the unit of organization.

- State Department of Education—The State X 05 20.10 department of education of the State in which the school system is located, which can or does grant approval. (Rec-All)
- Other State Agency-A State agency, other X 05 20.20 than the State department of education-e.g., a State board of higher education or a State board of junior colleges—which can or does grant approval. (Rec-All)
- Other Agency-An agency, other than the State X 05 20.90 department of education or another agency of the State in which the school system is located which can or does grant approval. (Rec-All) Any such agency should be specified.

X 05 30. ACCREDITATION STATUS (2, 3)

- X 05 30.10 Accredited—The school or program of studies is accredited. (Rec-All)
- Warning or Probation—The school or program of studies, currently accredited, may have X 05 30.20 accreditation withdrawn by the accrediting agency unless certain specified deficiencies are corrected within a given period of time. (Rec-
- Accreditation Denied-The school has applied X 05 30.30 for accreditation, but accreditation was denied by the accrediting agency. (Rec-All)
- Application in Process-Application has been X 05 30.40 made for accreditation but a final decision has not been reached. (Rec-All) This includes institutions which have been granted "Candidate Status.

- Accreditation Not Requested—Accreditation has not been requested. (Rec-All) X 05 30.50
- Accreditation Not Available-Accreditation is X 05 30.60 not available to the school or program of studies. (Rec-All)

X 05 40. ACCREDITING AGENCY (2, 3)

Information about the agency which can or does grant accreditation to the school or program of studies.

- State Department of Education-The State de-X 05 40.10 partment of education of the State in which the school is located, which can or does grant accreditation to the school or program of studies. (Rec-All)
- X 05 40.20 Regional Accrediting Association-A voluntary nongovernmental organization established to administer an accrediting procedure in a geographic area including more than one State but less than all. (Rec-All)
- Professional Association—A recognized volun-X 05 40.30 tary nongovernmental professional association administering an accrediting procedure for specific types of schools or programs of studies. (Rec-Sec, JrC, AdEd)
- X 05 40.40 Technical and/or Business Association—A recognized voluntary nongovernmental technical or business association administering an accrediting procedure for specific types of schools or programs of studies. (Rec-Sec, JrC, AdEd)
- X 05 40.90 Other Agency-An agency-other than the State department of education of the State in which the school is located, a regional accrediting association, or a professional association—which can or does grant accreditation to the school or program of studies. (Rec-Sec, JrC, AdEd) Any such agency should be specified.

TIME ELEMENTS (1, 2, 3, 4, 5)X 06 00 Series

Items of information under this heading may be used to indicate the manner in which time is organized for various segments of the school year and the school day.

X 06 10. SCHOOL YEAR (1, 2)

The school year is defined as the 12-month period of time denoting the beginning and ending dates for school accounting purposes, usually from July 1 to June 30; a school term is defined as a prescribed span of time when school is open and the pupils are under the direction and guidance of teachers. The school year may include one or more school terms, the most common of these terms being the regular and summer school terms. These terms sometimes are further subdivided into shorter terms such as semesters and quarters.

- X 06 11. Division of School Year (1, 2)
- X 06 11.10 Regular School Term and Summer School Term— (Rec-All)
- $Regular\ School\ Term\ Only (Rec-All)\ Designa-$ X 06 11.20 tions for divisions of the regular school term are included under item X0621.
- Three Trimesters—Three approximately equal school terms of about 3 to 4 months each, the X 06 11.30 quantity of school work for each term being intended to approximate the usual amount of work for a typical semester. (Rec-All)
- Four Quarters—Four approximately equal school X 06 11.40 terms of about three months each. (Rec-All)
- Combination-A combination of two or more \mathbf{X} 06 11.80 patterns of time for the school year for different



schools, programs of studies, or pupil groups. (Rec-All) The various patterns may be specified.

X 06 11.90 Other Division-A division or organization of the school year other than those identified under items X0611.10 to X0611.80, e.g., summer school term only. (Rec-All) Any such division or organization should be specified.

X 06 20. REGULAR SCHOOL TERM (1,2)

The regular school term is that school term which begins usually in the late summer or fall and ends in the spring. It may be interrupted by one or more vacations.

X 06 21. Division of Regular School Term (1, 2)

The manner in which the regular school term is divided into segments such as semesters, trimesters, and quarters. Designations for the number of reporting periods during the regular school term are included under item X0850.10.

X 06 21.10 Single Term—A regular school term containing no major subdivisions of time (e.g., no semesters and no quarters). (Rec-All)

Semesters—A regular school term consisting of 2 X 06 21.20 equal segments, each of about 16 to 18 weeks duration. (Rec-Sec, JrC, AdEd)

Trimesters—A school year consisting of 3 equal segments, 2 of which are considered_to com-X 06 21.30 prise the regular school term. (Rec-JrC, AdEd)

Quarters—A school year consisting of 4 equal segments, 3 of which are considered to comprise X 06 21.40 the regular school term. (Rec-JrC, AdEd)

Other Division—A regular school term divided in a manner other than those identified under items X0621.10 to X0621.40. (Rec-All) Any such division should be specified. X 06 21.90

X 06 22. Calendar Months (1, 2)

The number of calendar months indicating, to the nearest whole month, the amount of elapsed time from the first day in session to the last day in session for the regular school term. (Op-All)

X 06 22 .01 X 06 22 .02 X 06 22 .03 X 06 22 .04 X 06 22 .05 X 06 22 .06 X 06 22 .07 X 06 22 .08 X 06 22 .09 1 Month or Less 2 Months 3 Months 4 to 6 Months 7 Months 8 Months 9 Months 10 Months 11 or 12 Months

X 06 23. Equivalent Weeks (1, 2)

The number of equivalent weeks (not calendar weeks) during which school is in session for the regular school term, expressed to the nearest full week. (Op-All) Where used for school accounting purposes, and equivalent week generally refers to 5 days in session and represents one-fourth of a "school month" which usually contains 20 days in session, or the equivalency of 4 weeks. If the number of weeks is less than 30 or more than 44, this number should be specified.

X 06 23.09 X 06 23.30 X 06 23.39 Less than 30 Weeks 30 Weeks 31 Weeks X 06 23.32 X 06 23.33 32 Weeks 33 Weeks X 06 23.34 34 Weeks X 06 23.35 35 Weeks X 06 23.36 36 Weeks X 06 23.37 37 Weeks X 06 23.38 38 Weeks X 06 23.39 39 Weeks X 06 23.40 X 06 23.41 40 Weeks 41 Weeks

X 06 23.42 42 Weeks X 06 23 .43 43 Weeks X 06 23 .44 44 Weeks X 06 23.89 More than 44 Weeks

X 06 24. Days in Session (1, 2)

The number of days in session during the regular school term. (Rec-All) A day in session is a day on which the school is open and the pupils are under the guidance and direction of teachers, plus days on which the school plant is closed and the student body as a whole is engaged in school activities outside the school plant under the guidance and direction of teachers. For some purposes it may be preferable to indicate the actual number of days in session rather than use the categories which follow. If the number of days in session is less than 160 or more than 209, this number should be specified.

Less than 160 Days 160–169 Days 170–174 Days X 06 24.01 X 06 24.02 X 06 24.03 X 06 24.04 175-179 Days X 06 24.05 180-184 Days X 06 24.06 185-189 Days X 06 24.07 190-199 Days X 06 24.08 200-209 Days X 06 24.09 More than 209 Days

X 06 30. SUMMER SCHOOL TERM (1, 2)

The summer school term is that school term which takes place in the summer during the period between the end of one regular school term and the beginning of the next regular school term.

X 06 32. Calendar Months in Summer School Term (1, 2) The number of calendar months indicating, to the nearest whole month, the amount of elapsed time from the first day in session to the last day in session for the summer school term. (Op-All) The designations of item X0622 may be used to indicate the number of calendar months in the summer school term.

Calendar Weeks in Summer School Term (1, 2) X 06 33. The number of calendar weeks during which school is in session for the summer school term, expressed to the nearest full week. (Op-All) If the number of weeks is less than three or more than nine, this number should be specified.

X 06 33 .02 Less than 3 Weeks X 06 33 .03 3 Weeks X 06 33 .04 4 Weeks X 06 33.05 5 Weeks X 06 33.06 6 Weeks X 06 33.07 7 Weeks X 06 33.08 8 Weeks X 06 33.09 9 Weeks X 06 33.01 More than 9 Weeks

X 06 34. Days in Session in Summer School Term (1, 2) The number of days school is in session during the summer school term. (Rec-All) For some purposes it may be preferable to indicate the actual number of days in session rather than use

the categories which follow. If the number of days is less than 11 or more than 60, this number should be specified.

X 06 34.01 Less than 11 Days 11-20 Days 21-25 Days X 06 34.02 X 06 34.03 X 06 34.04 26-30 Days X 06 34.05 31-35 Days X 06 34.06 36-40 Days X 06 34.07 41-50 Days X 06 34.08 51-60 Days X 06 34.09 More than 60 Days

X 06 40. SCHOOL DAY (2)

A school day is that part of a calendar day when school is in session. Included under this



heading are items of information which can be used to identify the organization of time segments comprising the typical school day.

X 06 41.

Sessions in School Day (2)
A session is the period of time during the school day when a given group of pupils is under the guidance and direction of teachers. The manner in which the school day is organized for the various sessions of the school may be described by items under this heading.

- Single (1) Session—A school day consisting of a single session. (Rec-Elem, Sec) X 06 41.10
- Double (2) Sessions-A school day consisting of X 06 41.20 separate sessions for two groups of pupils in the same instructional space, e.g., one room used by one fourth-grade class in the morning and by another fourth-grade class in the afternoon; or one school building used by high school juniors and seniors during a morning session and by freshmen and sophomores during an afternoon session. (Rec-Elem, Sec)
- Two Overlapping Sessions—A school day consisting of two overlapping sessions with separate times for two different groups of pupils to X 06 41.30 start and end their sessions in the same school plant, e.g., high school juniors and seniors begin their session at 7:30 a.m. and the freshmen and sophomores begin their session at 9:20 a.m. the session at 8:30 a.m., the session for juniors and seniors ending one hour prior to the time the session ends for the freshmen and sophomores. (Rec-Elem, Sec)
- Three or More Overlapping Sessions-A school X 06 41.40 day consisting of three or more overlapping sessions with separate times for three or more different groups of pupils to start and end their sessions in the same school plant. (Rec-Elem, Sec)
- Other Organization—Sessions of the school day organized in a manner other than those identified in items X0641.10 to X0641.40. (Rec-Elem, Sec) Any such organization should be X 06 41.90 specified.
- Minutes in School Day (2) X 06 45. The number of minutes the school is in opera-tion during all the sessions of the typical school day. (Op-All) For some purposes it may be preferable to indicate the actual number of minutes rather than use the categories which follow.
- Less than 240 Minutes—(Specify.) 240–269 Minutes 270–299 Minutes 300–329 Minutes
- X 06 45.01 X 06 45.02
- X 06 45.03
- X 06 45.04
- X 06 45.05
- 06 45.06
- X 06 45.07
- 330–329 Minutes 330–359 Minutes 360–419 Minutes 420–479 Minutes 480–539 Minutes 540 Minutes and More—(Specify.) X 06 45.08 X 06 45.09

X 06 50. DAILY SESSION (2, 3)

A session is that period of time during the school day when a given group of pupils is under the guidance and direction of teachers. An identification of the type of session and the organization of time segments comprising each session is included under this heading. This information may be recorded according to level, e.g., for kindergarten, for grades 1 to 3, and for grades 4 to 6.

- Type of Session (2)
 Identification of the type of session, e.g., full-day session, half-day session, and curtailed session. X 06 51.
- X 06 51.10 Full-day Session—A school session which contains at least the minimum number of hours

recommended by the State education agency for a full day of attendance in a given elementary or secondary grade other than kinder-garten or prekindergarten. (Rec-Elem, Sec)

- Half-day Session—A school session which contains the minimum number of hours recom-X 06 51.20 mended by many State education agencies for kindergarten or prekindergarten instruction (or instruction for certain groups of handicapped pupils) when the length of this session aproximates half the number of hours recommended for a full-day session in other elementary grades. (Rec-Elem)
- X 06 51.30 Curtailed Session-A school session with less than the number of hours of instruction recommended by the State education agency. (Rec-Elem, Sec)
- Other Type of Session—A type of session other than those identified under items X0651.10 to X 06 51.90 X0651.30, e.g., two groups of pupils attend school on alternate days of the week. (Rec-Elem, Sec) Any such type of session should be specified.
- X 06 52. Organization of Time Segments in Session (2, 3)
- Entire Session (Self-contained Class)—A session X 06 52.10 in which classes meet with the same teacher or team of teachers in the same teaching space for all or most of the time. (Rec-Elem, Sec)
- Partially Departmentalized Session—A session in which classes have the same teacher for a X 06 52.20 major portion of the time (e.g., for English language arts, social studies, and other instrucschedule (e.g., special teachers for mathematics, music, and science). (Rec-Elem, Sec)
- Uniform Class Periods-Time segments of equal X 06 52.30 length which comprise the portion of the session devoted to instruction. (Rec-Sec)
- Single Period-A time segment, consisting of X 06 52.31 a single class period, during which classes meet with each teacher or team of teachers. (Op-Sec)
- Multiple Periods (Block of Time)—A time segment, consisting of two or more successive X 06 52.32 class periods but less than an entire session, during which classes meet with each teacher or team of teachers. (Op-Sec)
- Combination of Single and Multiple Periods-X 06 52.33 An arrangement whereby classes meet with each teacher or team of teachers on a varying schedule, for a single class period on some days and for more than a single period on other days. (Op-Sec)
- Nonuniform Class Periods-A session in which X 06 52.40 time devoted to instruction consists of class periods of varying length. (Rec-Sec) If nonuniform class periods result from the use of procedures for flexible scheduling, this fact may be indicated.
- X 06 52.50 Modules of Time-A session comprised of uniform portions or modules of time-each module generally a fraction of the usual time for a class period—which are combined in various multiples, as appropriate for various courses and activities. (Rec-Elem, Sec)
- Combination of Class Periods and Modules-A X 06 52.60 session composed of class periods and modules. (Rec-Elem, Sec)
- Homeroom Period—A portion of a session, in a departmentalized instructional organization, X 06 52.70 during which a teacher and a group of pupils meet primarily for purposes of checking attendance, making announcements, and attending to other administrative details. (Rec-Sec)



Activity and/or Assembly Period-A portion of the session, occurring on one or more days of the week at a time when no courses are schedthe week at a time when no courses are scheduled, the time being devoted to various courricular activities including assemblies. In some instances, this period is combined with the homeroom period described under item X0652.70. (Rec-Sec)

Other Organization—An organization of the session other than those identified under items X0652.10 to X0652.80. (Rec-Sec) Any such X 06 52.90 organization should be specified.

X 06 55. Minutes in Session (2, 3)

The number of minutes that given pupil groups (e.g., pupils in kindergarten, grade 6, or grade 12) are in session during the day, including lunch and recess time, expressed according to category of time as follows. (Rec-Elem, Sec; Op-AdEd) For some purposes it may be preferable to indicate the actual number of minutes rather than use the categories which follow.

X 06 55.01 X 06 55.02 X 06 55.03 Less than 180 Minutes—(Specify.) 180–239 Minutes 240–299 Minutes X 06 55.04 X 06 55.05 X 06 55.06 X 06 55.07 300–359 Minutes 360–389 Minutes 390-419 Minutes 420-449 Minutes X 06 55.08 X 06 55.09 450-479 Minutes 480 Minutes and More—(Specify.)

X 06 56. Minutes of Instruction in Session (2, 3)

The number of minutes that given pupil groups are in session during the day, exclusive of time for lunch, recess, and homeroom periods. (Rec-Elem, Sec; Op-AdEd) The designations of item X0655 may be used to indicate the number of minutes of instruction in the session.

X 06 60. CLASS PERIOD (2, 3, 4, 5)

An identification of the number and length of class periods during a typical daily session in a departmentalized organization. A class period is a unit of time, a portion of the daily session set aside for instruction in classes, when most classes meet for a single such unit of time.

X 06 65.

Minutes in Class Period (2, 3, 4, 5)

The typical length of uniform class periods, exclusive of time for passing between classes, expressed in minutes. (Rec-Sec, JrC; Op-AdEd) For some purposes it may be preferable to indicate the actual number of minutes rather than use the categories which follow.

X 06 65.01 Less than 40 Minutes—(Specify.) X 06 65.02 X 06 65.03 X 06 65.04 X 06 65.05 40–44 Minutes 45–49 Minutes 50-54 Minutes 55-59 Minutes 60-64 Minutes 65-74 Minutes 75-94 Minutes X 06 65.06 X 06 65.07 X 06 65.08 95 Minutes and More—(Specify.) X 06 65.09 X 06 66.

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Number of Class Periods in Typical Daily Session

(2, 3)

The maximum number of class periods for an individual pupil in a typical daily session, when this number generally is uniform for all the days of the week. (Rec-Sec, JrC) If the maximum number is not uniform, the number of class periods for the week may be indicated under item X0667.

X 06 66.02 1 or 2 Class Periods X 06 66.03 3 Class Periods X 06 66.04 4 Class Periods X 06 66.05 5 Class Periods

X 06 66.06 6 Class Periods X 06 66.07 7 Class Periods X 06 66.08 8 Class Periods X 06 66.09 9 or More Class Periods—(Specify.) X 06 66.01 Irregular Number of Class Periods X 06 67. Number of Class Periods in Typical Week (2, 3)

The maximum number of class periods for an individual pupil during a week, when the number is not uniform for all the days of the week. (Rec-Sec, JrC; Op-AdEd) When the maximum number generally is uniform, the number of class periods in a typical daily session should be indicated under item X0666.

X 06 70. MODULE OF TIME (2, 3, 4)

An identification of the number and length of modules of time during a typical daily session. A module is a unit of time, a portion of the daily session set aside for instruction in classes, when most classes meet for two or more such units of time.

X 06 71. Variation in Modules (2)

X 06 71.10 No Variation—A uniform number of modules per day, week, or term—for all courses and all groups of pupils—for instruction yielding one unit of value. (Rec-Sec)

Varying for Different Groups—A differing number of modules per day, week, or term—for various courses or for various groups of pupils—for instruction yielding one unit of value. (Rec-Sec) X 06 71.20

X 06 75. Minutes in Module (2)

The typical length of modules, expressed in minutes. (Rec-Sec) For some purposes it may be preferable to indicate the actual number of minutes rather than the control of t utes rather than use the categories which follow.

X 06 75.01 Less than 10 Minutes—(Specify.) 10 and 11 Minutes 12 to 14 Minutes X 06 75.02 X 06 75.03 15 to 19 Minutes X 06 75.04 X 06 75.05 20 to 29 Minutes 30 Minutes and More—(Specify.) X 06 75.06

X 06 76. Number of Modules in Typical Daily Session (2) The number of modules in a typical daily session, when this number generally is uniform for all the days of the week. (Rec-Sec) If the number is not uniform, the number of modules in a typical week may be indicated under item X0677. For some purposes it may be preferable to indicate the actual number of modules rather than use the categories which follow.

Less than 5 Modules—(Specify.) 5-7 Modules X 06 76.01 X 06 76.02 X 06 76.03 8-10 Modules X 06 76.04 11-13 Modules X 06 76.05 14–16 Modules 17–19 Modules X 06 76.06 X 06 76.07 20-22 Modules 23-25 Modules X 06 76.08 26 Modules and More—(Specify.) X 06 76.09

X 06 77. Number of Modules in Typical Week (2)

The number of modules during the week, when the number is not uniform for all the days of the week. (Rec-Sec) This number should be specified. If the number of modules generally is uniform for all the days, the number in a typical daily session should be indicated under item X0676.

Usual Number of Modules Per Day for Unit of Value(2, 4) X 06 78.

The usual (or average) number of modules

See item X0810 for a description of a unit of value.
 See item X0810 for a description of a unit of value.



per day (or per week) for instruction yielding one unit of value. 13 (Rec-Sec) Designations for modules per week are included under item X0812.

X 06 78.02 2 Modules X 06 78.03 X 06 78.04 3 Modules 4 Modules X 06 78.05 5 Modules X 06 78.06 6 Modules X 06 78.07 7 Modules X 06 78.08 8 Modules 9 Modules X 06 78.09

X 06 78.01 More than 9 Modules—(Specify.)

X 06 80. DESCRIPTION OF TIME ELEMENTS (4, 5)

X 06 81. Year and Term (4, 5)

An identification of the school year and term when a specific course, self-contained class, or section is scheduled (e.g., the 1969-70 school year, and the regular school term, fall semester, or summer school term). (Rec-All)

Frequency of Service (5) X 06 82. The frequency with which a given service or service activity is made available.

Annually-Once a year. (Op-All) In addition, X 06 82.10 the time of year and span of time may be speci-

Semiannually-Twice a year. (Op-All) In addi-X 06 82.20 tion, the times of the year and spans of time may be specified.

Monthly-Once a month. (Op-All) In addition, X 06 82.30 the span of time for each month may be specified.

Weekly-Once a week. (Op-All) In addition, X 06 82.40 the span of time for each week may be specified.

Given Days of Week—The same 2 to 4 days each week. (Op-All) The specific days of the week should be included in item X0683. X 06 82.50

Daily-Every day. (Op-All) The specific hours X 06 82.60 of the day should be included in item X0685.

Other Schedule-A regular schedule other than X 06 82.70 those identified under items X0682.10 to X0682.60. (Op-All) Any such schedule should be specified.

As Required—The service is made available or X 06 82.80 performed as required, but not on a regular schedule. (Op-All)

X 06 83. Days of Week (4, 5)

The day or days of the week on which a section of a course or self-contained class meets, e.g.,
Tuesday and Thursday; or, if these days vary from week to week, the scheduling cycle or plan for scheduling meeting days. (Rec-Sec, JrC, AdEd)

Number of Days Per Week (4, 5) X 06 84.

The number of days per week that a section of a course or self-contained class typically meets. (Op-Sec, JrC, AdEd)

X 684.01 1 Day X .684.02 2 Days X 06 84.03 3 Days 4 Days X 06 84.04 5 Days X 06 84.05 X 06 84.06 6 Days X 06 84.07 7 Days X 06 84.08 Variable Number of Days

Time of Day, Hour of Day, or Period Number(s) X 06 85.

of Section Meeting or Service (4, 5)
The clock hour of the day or the period number of a section meeting; or, if this hour or period varies from day to day, the plan for scheduling

the hour or period for section meetings.¹⁴ (Rec-Sec, JrC, AdEd) In addition, the time of day of class meetings may be recorded. For adult education classes, this could indicate "day time," "late afternoon or evening," or "other time"; for certain elementary and secondary classes, this could indicate "before session" in the morning, or 'after session" in the afternoon. (Op-All)

X 06 86. Time Segment for Class or Course (4, 5) The amount of time in those daily sessions during which the course or self-contained class typically meets, e.g., the entire session, a block of time, a class period, and a variable amount of

time.

X 06 86.11 Entire Session—(Op-Elem, AdEd)

X 06 86.12 Block of Time-A time segment consisting of two or more consecutive class periods but less than an entire daily session. (Op-Sec)

Single Class Period—(Op-Sec) X 06 86.13

Modules of Time—One or more modules of time. (Op-Sec) The number of modules may X 06 86.14 be specified.

Variable Amounts of Time—Time segments which vary for the different days of the week X 06 86.15 during which course meets. (Op-Sec)

Other Amount of Time—Time segments other than those identified under items X0685.11 to X 06 86.19 X0685.15, including situations in which time in the daily session varies for different sections of the course and situations in which the number of meetings of the section varies from one week to another. (Op-Sec) This amount or schedule of time should be specified.

Minutes Per Week (4, 5) X 06 87.

> The number of minutes per week that a section of a course, self-contained class or cocurricular activity typically meets. (Op-All) Appropriate designations are included under item X0813. If desired for identifying the amount of time for instruction in a given subject-matter area within a self-contained class, these same designations may be used. If the number of minutes varies from week to week, this fact should be indicated and an average number of minutes per week specified. If the number of minutes varies because of a scheduling cycle of other than one or five days, this fact may be indicated; the number of days in the scheduling cycle also may be noted (see also "Scheduling Cycle" in the glossary).

Number of Weeks (4, 5) X 06 88.

The number of equivalent weeks (not calendar weeks) during which a section of the course, selfcontained class, or cocurricular activity typically meets. (Op-All) For some purposes it may be preferable to indicate the actual number of weeks rather than use the categories which follow. If a given course is scheduled as a part of a cycle scheduling plan, this arrangement also may be

X 06 88.01 X 06 88.02 Less than 5 Weeks 5–8 Weeks 9–12 Weeks X 06 88.03 X 06 88.04 13-20 Weeks X 06 88.05 21-32 Weeks X 06 88.06 33-36 Weeks X 06 88.07 37-40 Weeks X 06 88.08 41-44 Weeks X 06 88.09 45-52 Weeks

X 06 89. Miscellaneous Times for Class Meetings (4, 5) Days other than those on which classes usually meet, e.g., days during weekends, summer vacation, Thanksgiving vacation, Christmas vacation, and spring vacation. (Op-All)

¹³ See item X 08 10 for a description of a unit of value.

 $^{^{14}\,\}mathrm{The}$ glossary includes definitions for "Scheduling Cycle" and "Cycle Scheduling."

X 06 90. OTHER TIME ELEMENTS (1, 2, 3, 4, 5)

Time elements, other than those included under items X0610 to X0689, which may be used to indicate the manner in which time is organized for various segments of the school year and the school day, e.g., length of homeroom period and length of activity period. (Op-All) Any such time element should be specified.

EVALUATION AND CURRICULUM IMPROVEMENT (1, 2, 3, 4) X 07 00 Series

The items of information under this heading may be used to describe the background considerations, organization, personnel, and activities involved in evaluating and/or improving the instructional program of a school system, school, or other organizational unit.

Evaluation generally involves an appraisal of current status and a comparison of this status with (a) the extent to which it attains predetermined objectives and purposes, (b) appropriate criteria or standards, (c) previous status, or (d) current status of others. Evaluation findings frequently provide the basis for activities undertaken to improve the instructional program of the school system.

Curriculum improvement encompasses activities having as their purpose the development or improvement of the curriculum, including the programs of studies, cocurricular activaties, and instructional services of the school system or school. These activities include considering educational needs of pupils and community; identifying general aims and specific objectives; selecting and organizing appropriate content and learning experiences; identifying appropriate methods and resources; preparing curriculum guides and other resource materials; testing and recommending such resource materials; and providing for continuous, methodical study, evaluation, and improvement of the existing instructional program. This includes the activities of any systemwide or schoolwide curricular advisory committee.

X 07 10. BACKGROUND OF THE INSTRUCTIONAL PROGRAM (1, 2, 3, 4)

A selection of factors which are considered in the evaluation process because they are descriptive of the community, the pupils, and other underlying determinants of the design of the instructional program.

X 07 10.11 Philosophy of the School System—The officially adopted statement expressing the ideals the school system attempts to realize in its practices. (Rec-All) This statement—frequently including considerations such as (a) the responsibility of the school system to the community, and its relationship to other community agencies providing education; (b) present knowledge of the nature of youth with their differing needs, interests, and abilities; (c) present knowledge of the nature of learning and of aspects of knowledge itself; and (d) a concept of the roles and relationships of teachers, pupils, administrators, and others—may be used as a basis for the general determination, interpretation, and evaluation of the school system's

policies and activities. Many persons and groups involved in developing the statement of philosophy may be identified by using the categories of item X0730.

X 07 10.12 Philosophy of the School—The officially adopted statement expressing the ideals the school attempts to realize in its practices. (Rec-All) See also item X0710.11, Philosophy of the School System.

X 07 10.13 Aims of the School System—A statement of what the school system is attempting to do to meet the needs and interests of its pupils and patrons, in accordance with its statement of philosophy. (Rec-All) Persons and groups involved in developing the statement of aims may be identified with the use of the categories of item X0730.

X 07 10.14 Aims and Objectives of the School—The statement of the general, long-range aims and the specific, short-range objectives which indicate what the school is attempting to do to meet the needs of its pupils and patrons, in accordance with the philosophy, aims, and policies of the school system and school. (Op-All)

X 07 10.21 School System Policies—A statement of judgments, derived from a system of values and an assessment of situational factors, operating within the school system as a general plan for guiding decisions about how to attain desired educational aims and objectives. (Rec-All) Persons and groups involved in developing the policy statement may be identified with the use of the categories of item X0730.

X 07 10.22 Rules and Regulations of School—A statement of judgments—based on school system policy, and reflecting a system of values and an assessment of situational factors—operating within the school as a general plan for guiding decisions about how to attain desired educational aims and objectives. (Op-All)

X 07 10.30 Characteristics of the Community—The various social and economic characteristics which serve to indicate the nature of the neighborhood or community, including trends and projections as well as current status, e.g., general type of community, composition of population, general socioeconomic level as indicated by the community occupational structure or the general educational level of parents, and identified problems and needs of the community. (Rec-All) Certain community resources—such as education-related agencies, civic organizations, and recreational opportunities—may be identified under the X3300 Series on page 96.

X 07 10.31

General Type of Community—Factors such as location (e.g., central city, suburban, or rural); governmental structure; tax base; and residential, business, industrial, utility, and transportation characteristics. (Op-All)

Composition of Population—Identified characteristics of residents of the school community such as age, sex, ethnic origin (or race), regional or national origin, languages spoken in the home, proportion of families receiving welfare assistance, level of income, housing characteristics, migration or mobility rates, and proportion of employed residents commuting to work.

X 07 10.33

Occupational Structure of School Community—
An identification of the general occupational structure of the school community. (Op-All)
In some instances, a composite picture is obtained by use of a rating scale utilizing values such as 0—professional persons; 1—farmers (owners and tenants of large-scale operations); 2—proprietors, managers, and officials (except farmers); 3—cterks and

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X 07 10.32

kindred workers; 4—skilled workers and foreman; 5—semiskilled workers; 6—farm laborers; 7—other laborers; and 8—servant occupations.

- X 07 10.34 Educational Level of Parents—An identification of the general level of education of the parents of the pupils. (Op-All) One way to obtain a composite picture of this level is through the use of a scale indicating the highest diploma or degree received.
- X 07 10.35 Problems of the School Community—Identified problems of the school community, e.g., excessive juvenile delinquency, poverty, intergroup tensions, intergroup communication problems, inadequate housing, health problems, transportation difficulties, and insufficient employment opportunities. (Op-All)
- X 07 10.36

 Needs of the School Community—Identified needs of the community, e.g., additional library facilities, additional recreational opportunities, improved housing, and additional employment opportunities. (Op-All)
- X 07 10.39 Other Characteristics—Information about characteristics, other than those identified under items X0710.31 to X0710.36, which serve to indicate the nature of the community, e.g., cultural, geographic, residential, business, and industrial characteristics. (Op-All)
- X 07 10.40 School-community Relations—The manner in which representatives of the school and the community work together to identify and provide for individual and group interests and needs of pupils, parents, and members of various other community groups. (Rec-All) This includes the activities of any lay advisory committee.
- X 07 10.41 Community Opinion—The general opinion of a representative sampling of members of various community groups (e.g., pupils, parents, business, industry, and labor) concerning problems, needs, and activities of the community and its school or schools; also the manner in which such opinion is determined. (Op-All)
- X 07 10.42 School-community Planning—Coordination between representatives of the school and representatives of community groups in planning for the development and use of resources in meeting the interests and needs of pupils, parents, and members of various other community groups. (Op-All)

 X 07 10.43 Home-school Relations—Relations between
- X 07 10.43

 Home-school Relations—Relations between the school and its staff members and the parents of the pupils, with particular attention given to the ways in which the school staff and parents work together in helping pupils derive maximum benefit from their educational experiences. (Op-All)
- X 07 10.44 Participation of Parents in School Activities and Affairs—The manner in which parents take part in school activities and affairs, e.g., through participation in a parent-teacher organization, or by providing personal and financial support of specific school activities. (Op-All)
- X 07 10.49 Other Aspects of School-community Relations—Aspects of school-community relations other than those included under items X0710.41 to X0710.44. (Op-All) Any such aspect should be specified.
- X 07 10.50 Characteristics and Needs of the Pupils—Identified general pupil characteristics and needs

which provide, or might provide, a basis for educational planning by the school. (Rec-All) Other items describing pupils are included in the X0900 Series, Pupils Served.

- X 07 10.51 Scholastic Ability—The level, range, and distribution of all pupils according to intellectual, physical, and social characteristics, as obtained from standardized instruments and other sources of information. (Op-All)
- X 07 10.52

 Exceptionality—The number of pupils according to type of exceptionality, as identified by professionally qualified personnel. (RecAll) For designations for types of exceptionality, see item X0960.
- X 07 10.53

 School Placement—The distribution of pupils according to the type of school in which they receive instruction (e.g., elementary school, junior college, and elementary school for physically handicapped) and according to age and grade (i.e., age-grade distribution). (Op-All)
- X 07 10.54 Educational and Career Intentions—The distribution of pupils according to intentions and plans for future education and careers.

 (Op-All)
- X 07 10.55 School Performance—The general nature and quality of pupils' activities and accomplishments within the school program, such as the range and distribution of pupils according to courses studied, cocurricular activities, grade progression, scholarship awards, and diplomas, certificates, or degrees awarded for completion of school work. (Op-All)
- X 07 10.56

 Nonschool Performance—The general nature of pupils' participation and accomplishments in employment and other significant activities performed outside the school, whether performed during school terms or during vacations. (Op-All)
- X 07 10.57 Postschool Performance—The general nature and, in some instances, quality of participation and accomplishments of former pupils (both graduates and dropouts) in employment and other activities after leaving school. (Op-All)
- X 07 10.58

 Mobility/Stability—The general extent and nature of pupil mobility and stability as indicated by computations such as the frequency with which pupils transfer into and out of the school system and its various schools, withdrawal rates according to type of withdrawal, 15 and a distribution of high school seniors according to the number of years in their school system and school. (Op-All)
- X 07 10.59

 Pupil Needs—Identified general needs of the pupils of the school(s) which might provide a basis for educational planning. Among these are personal needs (e.g. for peer acceptance and for feelings of success) and needs for remediation of specific deficiencies, various types of guidance, appropriate socialization experiences, and assistance with language problems. Such needs might be extended to include consideration of needs for community recreational organizations and facilities, and greater selection in educational offerings. (Op-All)
- X 07 10.61 Pupil Morale—The characteristic collective feelings and attitudes of the pupils which are indicative of, and conducive to, willing and dependable performance and steady self-control. (Op-All)



¹⁵ Items of information describing withdrawals are included in John F. Putnam and George G. Tankard, Jr., op. cit., pp. 51-56.

X 07 10.62 Pupil-staff Relations—The nature of the typical relations between pupils and staff members, e.g., friendly, antagonistic, and supportive. (Op-All)

X 07 10.69 Other Characteristics and Needs—Identified general characteristics and needs of pupils, other than those included under items X0710.51 to X0710.62, which provide, or might provide, a basis for educational planning, e.g., environmental factors, and racial or ethnic composition. (Op-All) Any such characteristic or need should be specified.

X 07 10.70 Provisions for Curriculum Improvement—Activities having as their purpose the development or improvement of the curriculum including the programs of studies, cocurricular activities, and instructional services of the school system or school. (Rec-All) Curriculum improvement activities are discussed in greater detail on page 71 in the introduction to the X0700 Series. Items of information describing selected curriculum improvement activities are included under items X0720 through X0780.

X 07 10.80 Provisions for Improving Teaching—Activities such as supervision, workshops, conferences, school visits, committee projects, research projects, and staff meetings which are conducted during a given period of time to improve teaching. (Rec-All) Items of information describing selected activities for improving instruction are included under items X3235 and X3236.

X 07 10.90 Other Background Considerations—Factors other than those included under items X0710.11 to X0710.80 which are considered in the evaluation process because they are descriptive of the community, the neighborhood, the pupils, and other underlying determinants of the design of the curriculum. (Op-All) Any such factor or consideration should be specified.

X 07 20. ORGANIZATION FOR EVALUATION AND/ OR CURRICULUM IMPROVEMENT (1, 2, 4)

The function and/or composition of groups organized for purposes of evaluation and/or curriculum improvement for the school system, a portion of the school system larger than a school, or a single school. (Op-All) The various people involved in any such group may be identified under item X0730. When a school system regularly provides services to assist staff members in the evaluation of school practices, these services may be identified in item X3240.20.

X 07 20.10 Administrative Activity—A specified activity—e.g., policy formulation, test selection, interpretation of findings—which is the responsibility of the chief executive officer of the school system and his immediate assistants or advisors. (Op-All)

X 07 20.20 Advisory Committee—A group of persons—from inside or outside the education profession—chosen to advise the school system's chief executive officer or other professional staff member regarding selected aspects of the school system's activities, and having no final decision—making powers. (Op-All)

X 07 20.30 Steering Committee—A group of persons generally representative of the various interests involved and responsible for the overall determination and, sometimes, for the implementation of policies in regard to an activity or project that is to be undertaken. (Op-All)

X 07 20.40 Production Committee—A group of persons responsible for the development and production

of specific materials such as curriculum guides, outlines, lists, and other resource materials. (Op-All)

X 07 20.50 Workshop—As used in this context, an activity sponsored by a school system or school in which teachers, supervisors, administrators and, sometimes, consultants seek to evaluate and improve an aspect of curriculum and instruction. (Op-All)

X 07 20.90 Other Organization—An arrangement, for one or more persons, other than those arrangements identified under items X 0720.10 to X 0720.50, established for purposes of evaluation and/or improvement of aspects of the curriculum and instruction of the school system, or school. (Op-All) This might include classroom teachers working as individuals and combinations of classroom teachers cooperating in team teaching. Any such organization should be specified.

X 07 30. PERSONS OR GROUPS INVOLVED IN EVALUATION AND/OR CURRICULUM IM-PROVEMENT (1,2)

Identification of the persons or groups taking part in the evaluation and/or improvement of an aspect of the instructional program of the entire school system, of a portion larger than a school, or a single school, e.g., individuals or groups representing the administrative or instructional staff, the State education agency, a regional accrediting association, and a consultant or consulting firm. (Op-All)

X 07 30.10 Board of Education—The elected or appointed body which has been vested with responsibilities for authorizing, financing, and evaluating the educational activities in a given school system, school, or geographic area. (Op-All) Such bodies sometimes are known by terms such as school boards, governing boards, boards of directors, school committees, and school trustees. (NOTE: This definition relates to the general term and encompasses the boards of public and nonpublic institutions and school systems, including State boards of education and boards of intermediate and local basic administrative units.)

X 07 30.20 Central Administrative Staff—Staff members generally performing activities having as their purpose the general regulation, direction, and control of the affairs of the school system that are systemwide and not confined to a narrow phase of school activity, including the chief executive officer and his immediate assistants and advisors. (Op-All)

X 07 30.31 Central Instructional Staff—Central staff members, other than members of the central administrative staff identified under item X0730.20, generally performing activities dealing with curriculum improvement and with improving the quality of instruction. (Op-All) This includes supervisors, coordinators, and consultants serving the entire school system or a portion of the school system larger than a single school.

X 07 30.32 School Instructional Staff—School staff members generally performing activities dealing with the teaching of pupils or with improving the quality of teaching. (Op-All) This includes teachers, department heads, school librarians, audiovisual personnel, guidance personnel, and psychological personnel generally serving a single school. This also includes the instructional supervision function of school principals.

X 07 30.41 Intermediate Administrative Unit—Staff members of an administrative unit smaller than the State which exists primarily to provide con-

sultative, advisory, administrative, or statistical services to local basic administrative units, or to exercise certain regulatory and inspectoral functions over local basic administrative units. (Op-All)

X 07 30.42 State Education Agency—Staff members of an organization established by State law to carry out specified educational responsibilities of the State. (Op-All)

X 07 30.43 Regional Accrediting Association—Representatives of an organization established to administer an accrediting procedure in a geographical area including several States but not the entire nation. (Op-All)

X 07 30.44 Educators' Organization—Representatives of an organization of educators that draws its membership from the local area, State, or Nation as a whole. (Op-All)

X 07 30,50 Consultants—One or more persons without administrative authority whose advice is sought in improving policies and procedures such as those related to aspects of curriculum and instruction or those related to the administration of the school system and/or individual schools. (Op-All) This includes individuals or teams from colleges, universities, and consultant firms. Depending on the nature of his activity, such a person frequently is referred to as a "curriculum consultant" or a "management consultant."

X 07 30.60 Parents and/or Guardians—Persons having direct responsibility for children attending the schools of the school system. (Op-All)

X 07 30,70 Representatives of Community—Persons representing one or more aspects of community activity, e.g., business, labor, industry, religion, education, social service agencies, youth serving agencies, and other civic organizations. (Op-All)

X 07 30.80 Pupils—Individuals for whom instruction is provided in an educational program under the jurisdiction of the school system. (Op-All)

X 07 30.90 Other Persons or Groups—Persons, other than those identified under items X0730.10 to X0730.80, who take part in the evaluation process. (Op-All) Any such persons and groups should be specified.

X 07 40. EVALUATION PROCEDURES (1, 2, 3, 4)

Information about the frequency, media, and findings of evaluation of a given aspect of the instructional program of the entire school system, a portion of the school system larger than a school, a single school, a program of studies, or a specific type of self-contained class, course, or cocurricular

X 07 41. Frequency of Evaluation (1, 2)

The frequency with which an aspect of the instructional program is studied as a part of an evaluation procedure to determine status or performance, e.g., semiannually, annually, biennially, or as required for some special purpose. (Op-All) This frequency should be specified.

activity.

X 07 42. Data Collection Media (1, 2)

The medium or media utilized in gathering descriptive or quantitative data for use in evaluation, e.g., observation, standardized tests, survey instruments, and accreditation and/or approval criteria. (Op-All) These data may be used in determining, among other things, the extent to which predetermined objectives and purposes of the school system or school have been achieved, the extent to which given standards are met, and the comparison with previous performance or the performance of others.

X 07 42.10 Observation — Personal observation — informal and/or controlled—of conditions and activities (Op-All)

X 07 42.20 Interview—A planned consultation or face-toface meeting between an evaluator and one or more individuals associated with aspects of the school system or community. (Op-All)

X 07 42.30 Standardized Test—A test composed of a systematic sampling of behavior, having data on reliability and validity, administered and scored according to specific instructions, and capable of being interpreted in terms of adequate norms. (Op-All) Additional information derived from the testing program of the schools of the school system, included under items X3223.10 and X3240.40, might be used for purposes of evaluation.

X 07 42.40 Teacher-made Objective Test—A test constructed by a member of the instructional staff which usually is based on multiple-choice, matching, or completion-type questions, and which may or may not have local norms. (Op-All)

X 07 42.50 Survey Instrument—A questionnaire, rating scale, or other printed form used in gathering information about the schools, the pupils, the community, or related factors including community opinion polls and followup studies of pupils who graduate, drop out, and transfer to other school systems. (Op-All)

X 07 42.60 Cooperatively Developed Criteria—Standards or norms developed by personnel representative of the entire school system or school as bases for quantitative and qualitative judgments. (Op-All) The application of these criteria might involve the use of other media included under items X0742.10 to X0742.90.

X 07 42.70 Approval and/or Accreditation Criteria—Standards or norms selected by an approval agency or accrediting association as bases for quantitative and qualitative judgments. (Op-All) The application of these criteria might involve the use of other media included under items X0742.10 to X0742.90.

X 07 42.90 Other Data Collection Media—Media, other than those identified under items X0742.10 to X0742.70, utilized by persons or groups in gathering descriptive and/or quantitative data for use in evaluation, e.g., a case study approach and a research-type study. (Op-All) Any such medium should be specified.

X 07 43. Use of Data Collection Findings (1, 2)

The manner in which findings resulting from the data collection procedures are utilized for purposes of evaluation, e.g., in comparison of current status or performance with (a) objectives, (b) standards or criteria, (c) previous status or performance and/or (d) current status or performance of one or more other comparable groups or units. (Op-All)

X 07 44. Interpretation of Outcomes (1, 2)

A statement of significant outcomes resulting from evaluation procedures, usually involving an amount of interpretation, including identified needs for strengthening or improving aspects of the instructional program. (Op-All)

X 07 50. ASPECTS OF THE INSTRUCTIONAL PRO-GRAM EVALUATED (1, 2, 3, 4)

An indication of aspects of the instructional program which are studied in any given evaluation activity. This includes aspects of the instructional program's background (see item X0710) and of the context resources and processes of instructions.

the content, resources, and processes of instruction.

X 07 51. Instructional Content (1, 2)

A selection of factors, descriptive of instructional

content, which are considered in the evaluation

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process because they provide an indication of the appropriateness and adequacy of instructional offerings.

X 07 51.10 Scope of Instructional Content—The general range of instructional content provided pupils through self-contained classes, courses, and cocurricular activities. (Op-All) More specific information may be considered under item X0751.20, Subject-matter Areas and Courses, and item X0751.30, Cocurricular Activities.

X 07 51.20 Subject-matter Areas and Courses—The broad subject-matter areas and specific courses in which instruction is provided for pupils of the school system. (Op-All) Terminology and definitions appropriate for describing subject-matter areas and courses are included in chapters 5 and 6 of this handbook and in the 40000 Series of chapter 3.

X 07 51.30 Cocurricular Activities—The broad cocurricular activity areas and specific cocurricular activities provided for pupils of the school. (Op-All) Terminology and definitions appropriate for describing cocurricular activities are included in chapters 5 and 6 of this handbook and in the 40000 Series of chapter 3.

X 07 51.40 Articulation of Elements of the Instructional Program.—The manner in which the classroom instruction, cocurricular activities, and instructional services of the school system are interrelated and interdependent, the aim being to facilitate the continuous and efficient educational progress of pupils (e.g., from one grade to the next, from elementary to secondary school, and from secondary school to college), to interrelate various areas of the curriculum (e.g., fine arts and language arts), and/or to interrelate the school's instructional program with the program of out-of-school educational institutions (e.g., the home, church, youth groups, and welfare agencies). (Op-All)

X 07 51.41 Articulation Between Successive Schools—(Op-All)

X 07 51.42 Articulation Between Successive Years or Grades—(Op-All)

X 07 51.43

Articulation Among Curriculum Areas—Including planning for correlation, integration, differentiation, sequential study, and balance. (Op-All)

X 07 51.44 Articulation With Nonschool Educational Institutions—(Op-All)

X 07 51.90 Other Aspects of Instructional Content—Factors, other than those included under items X0751.10 to X0751.44 which are considered in the evaluation process. (Op-All) Any such factor should be specified.

X 07 52. Instructional Resources (1, 2)

A selection of factors, descriptive of instructional resources, which are considered in the evaluation process.

X 07 52.10 Instructional Staff—Identified general characteristics of the instructional staff—and of the conditions under which it works—which are useful for purposes of administration and evaluation. (Rec-All) Among such characteristics are preparation, experience, certification status, assignments, and teaching load or pupil load.

X 07 52.11 Preparation—The distribution of teachers (and other members of the instructional staff) according to aspects of their professional preparation such as the number of college credits in various general academic areas

and in courses of professional educational preparation. (Op-All) This may include consideration for quality of preparation, such as "class standing," "mark-point average," and recommendations.

X 07 52.12 Experience—The distribution of teachers (and other members of the instructional staff) according to aspects of their work experience such as the nature and duration of experience in the current school, in the school system, in education outside the school system, and outside the field of education. (Op-All)

X 07 52.13 Certification Status—The distribution of teachers (and other members of the instructional staff) according to aspects of their certification status, including an indication as to the extent to which they are working in the area for which they have been certificated. (Op-All)

X 07 52.14

Minimum Qualifications for Employment—
The minimum requirements for employment in each type of instructional assignment, considering factors such as education (or other preparation) and experience. (Op-All)

X 07 52.15

Nature of Assignments—The various types of instructional staff assignments within the school or school system and the number of positions for each assignment. (Op-All) The appropriateness of the various types of assignments may be considered in light of program objectives.

X 07 52.16

Numerical Adequacy of Staffing—The numerical adequacy of staffing for each type of instructional staff assignment. (Op-All) This adequacy frequently is expressed as "teaching load" or "pupil load" as related to activities such as (a) direct pupil supervision, (b) responsibility for parent and/or pupil counseling, and (c) responsibility for preparation of materials and reports for counseling.

X 07 52.17 Performance in Assignments—The general effectiveness with which staff members perform their functions. (Op-All)

X 07 52.18 Staff Morale—The characteristic feelings and attitudes of members of the instructional staff as related to their duties, responsibilities, goals, supervisors, and fellow staff members. (Op-All)

X 07 52.19 Other Characteristics of Staff—General characteristics of the instructional staff, other than those identified under items X0752.11 to X0752.18, which are considered in the evaluation process. (Op-All) Any such general characteristic should be specified.

X 07 52.20 Services Supporting Instruction—The broad areas of services supporting instruction which are considered in the evaluation processes, e.g., resource services for pupils, pupil personnel services, and services for the instructional staff. (Rec-All) Among factors to be considered concerning each of these broad service areas are appropriateness, accessibility, adequacy, frequency of use, and effectiveness of manage-

X 07 52.21 Resource Services for Pupils—Services such as school library services and audiovisual services which make instructional resources available directly to pupils. (Op-All) A more detailed description of aspects of resource services for pupils is included under item X3210.

X 07 52.22 Pupil Personnel Services—Services such as guidance services, health services, school psychological services, audiology services, speech pathology services, attendance serv-

ices, and school social work services which are concerned with the total welfare of pupils. (Op-All) A more detailed description of aspects of pupil personnel services is included under item X3220.

X 07 52.23 Services for Instructional Staff—Services such as library services, audiovisual services, instructional supervision services, and provisions for inservice education which provide materials, guidance, and other assistance to teachers and other members of the instructional staff. (Op-All) A more detailed description of aspects of services for the instructional staff is included under item X3230.

X 07 52.29 Other Services—Services, other than those included under items X0752.21 to X0752.23, which support instruction and are considered in the evaluation process, e.g., food services, pupil transportation services, community services, research services, and information services. (Op-All) Any such service should be specified.

X 07 52.30 Administration—The activities of directing and managing an operation—of the school system or school—related to instruction, curriculum improvement, and instructional services. (Rec-All)

X 07 52.31

Numerical Adequacy of Administrative Staff—
The numerical adequacy of staffing for the administrative assignments of the school system or school. (Op-All)

X 07 52.32 Scheduling of Pupils and Staff into Classes and Services—The appropriateness of schedules developed in assigning pupils and staff members to classes and instructional services.

(Op-All)

X 07 52.33 Organization for Administration—The manner in which the administrators, other staff members, and resources are organized for the administration of the school system or school, or of an instructional service provided by the system or school. (Op-All)

X 07 52.39 Other Administrative Factors—Administrative factors other than those included under items X0752.31 to X0752.33—e.g., effectiveness of administration—which are considered in the evaluation process. (Op-All) Any such factor should be specified.

X 07 52.40 Facilities—The appropriateness, quantities, adequacy, accessibility, and frequency of use of the various types of facilities, including built-in equipment. (Op-All) Descriptions of the various types of facilities are included in Handbook III¹⁶ and under item X3500.

X 07 52.50 Movable Equipment — The appropriateness, quantities, adequacy, accessibility, and frequency of use of various types of portable equipment, including library books. (Op-All) Descriptions of various types of movable equipment are included under item X3600.

X 07 52.60 Supplies—The appropriateness, quantities, adequacy, accessibility, and frequency of use of the various types of supplies, including text-books and films. (Op-All) Descriptions of various types of supplies are included under item X3600.

X 07 52.61 Provisions for Textbooks for Pupils—The appropriateness of provisions for textbooks for pupils, and the condition, quantities, and appropriateness of the textbooks themselves.

X 07 52.71 Finances—The sources of funds, extent of financial resources, amount and proportion of budget appropriations made for the instructional program (i.e., curriculum and instruction) as a whole and for various aspects of the instructional program, and the actual expenditures for the various budget items. (Op-All)

X 07 52.72 Salaries and Salary Schedule—The appropriateness and adequacy of the salary schedule for classroom teachers and for other categories of the instructional staff, and the distribution of each type of instructional personnel according to selected salary categories. (Op-All)

X 07 52.80 Community Resources—The facilities, agencies, businesses, and persons outside the schools in the community that may be used, or are used, by the schools for their educative values, e.g., theaters, parks, playgrounds, libraries, art galleries, museums, zoos, planetariums, botanic gardens, universities, churches, scouts and other youth groups, service clubs, social-service agencies, industries, and individuals, including representatives of various occupational groups, cultural groups, and civic organizations. (Op-All)

X 07 52.90 Other Instructional Resources—Instructional resources, other than those included under items X0752.10 to X0752.80, which are considered in the evaluation process. (Op-All) Any such resource should be specified.

X 07 53. Instructional Processes (1, 2)

A selection of factors, descriptive of instructional processes, which are considered in the evaluation process because they may be indicative of the appropriateness and adequacy of instruction.

X 07 53.10 Medium of Instruction—Any medium by which or through which the teacher communicates with his pupils, such as direct pupil-teacher interaction, television, radio, correspondence, and a self-teaching device or other independent study. (Op-All) For a more detailed description of various media of instruction, see item X4200,

Medium of Instruction.

X 07 53.20 Methods of Instruction—The types of procedures utilized by the teacher and/or pupil in instruction, e.g., demonstration, discussion, experimentation, lecture, practice, problem solving, and seminar. (Op-All) For a more detailed description of various methods of instruction see item X4300, Methods of Instruction, and item X4400, Other Procedures for Instruction.

X 07 53.21 Grouping Practices in Scheduling Classes—
The manner in which pupils of the school are grouped for purposes or scheduling into classes, e.g., grouping according to factors such as age, sex, ability, achievement, and program of studies. (Op-All) Other such factors are included under item X0900, Pupils Served, and item X1000, Entrance.

X 07 53.90 Other Aspects of Instructional Processes—Factors related to the instructional process, other than those included under items X0753.10 and X0753.20, which are considered in the evaluation process. (Op-All) Any such factor should be specified.

X 07 54. Factors Evaluated in Programs of Studies and in Self-contained Classes, Courses, and Cocurricular Activities. (2, 4)

Items under this heading may be used to indicate factors related to a program of studies, self-contained class, course, or cocurricular activity which are evaluated for the school system or school.

⁽Op-All) Descriptions of several plans for providing textbooks are included under item X3213.

¹⁶ Paul L. Reason and George G. Tankard, Jr., op. cit.

For example, an appropriate selection from the following items may help describe evaluation considerations for a school's science department, occupational program, social studies course, and marching band.

X 07 54.10 Characteristics of Staff—Characteristics of individual teachers, groups of teachers, and other members of the instructional staff, such as the number of teachers involved, their qualifications, and their class loads. (Op-All)

X 07 54.20 Instructional Content—The nature of subject matter and other aspects of instructional content, such as appropriateness for the pupils; planned instructional outcomes for pupils; articulation of content with other programs, courses, and activities; and articulation with out-of-school and/or postschool experiences of the pupils. (Op-All)

X 07 54.30 Resource Utilization—The utilization of instructional resources, including the appropriateness, adequacy, and frequency of use of facilities, equipment, supplies, instructional services, and community resources. (Op-All)

X 07 54.40 Instructional Processes—Aspects of instructional processes such as the nature, appropriateness, and variety of the media of instruction, methods of instruction, and teaching procedures. (Op-All) This includes planning considerations, evaluation procedures, and pupil participation in selecting, planning, conducting, and evaluating content and learning experiences.

X 07 54.90 Other Factors—Factors other than those identified under items X0754.10 to X0754.40 which are evaluated for a program of studies, self-contained class, course, or cocurricular activity. (Op-All) Any such factor should be specified.

X 07 55. Factors Evaluated in Instructional Services (1, 2)

Items under this heading may be used to indicate factors related primarily to an instructional service which is evaluated for a school system or school. For example, an appropriate selection from the following items may help describe evaluation considerations for guidance services, health services, and resource services for pupils.

X 07 55.10 Characteristics of the Staff—Characteristics of individual staff members and groups, such as number of staff members involved, their qualifications, their assignments, and their work loads. (Op-All)

X 07 55.20 Nature of Service Provided—The type of service provided; its appropriateness, availability, and adequacy; and its articulation with other aspects of the instructional program and with out-of-school and/or post-school experiences of the pupils. (Op-All)

X 07 55.30 Resource Utilization—The utilization of resources, including the appropriateness, adequacy, and frequency of use of facilities, equipment, supplies, community resources, and related instructional services. (Op-All)

X 07 55.90 Other Factors—Factors other than those identified under items X0755.10 to X0755.30 which are evaluated for an instructional service provided by the school system or school. (Op-All) Any such factor should be specified.

X 07 60. CURRICULUM IMPROVEMENT ACTIVITY (1, 2, 3)

The nature of responsibilities and activities of individuals and groups in the improvement of curriculum and instruction, e.g., planning, inservice education, supervision, and developing guides and other reproduced materials. (Op-All)

X 07 60.10 Planning for Curriculum Improvement—Making plans for improving the curriculum, including the identification of major concerns or areas for intensive study. (Op-All)

X 07 60.20 Development of Guide in Subject-matter Areas— The development or refinement of materials concerned primarily with one or more subject-matter areas. (Op-All) Additional detail is included under item X0770.

X 07 60.30 Development of Other Reproduced Materials— The development or refinement of materials concerned primarily with content which is not subject-matter oriented, e.g., a policy statement, or a discussion of behavioral characteristics of children. (Op-All) Additional detail is included under item X0780.

X 07 60.40 Inservice Education and Supervision—(Op-All)
Descriptions of aspects of inservice education
and supervision are included under items
X3235 and X3236.

X 07 60.50 Encouragement of Innovation—The manner in which school administrators and instructional supervisors encourage curricular innovation by individual teachers and groups of teachers by stimulating carefully planned experimentation in the use of new or unusual content, media, and methods of instruction. (Op-All)

X 07 60.90 Other Activities—Curriculum improvement activities other than those included under items X0760.10 to X0760.50. (Op-All) Any such activity should be specified.

X 07 70. SCOPE OF CURRICULUM IMPROVEMENT ACTIVITY (1, 2)

The span of levels, grades, and years included in the curriculum improvement activity and the scope of the substantive content. (Op-All)

X 07 71. Span of Levels, Grades, and Years (1, 2)
Complete levels (e.g., elementary school or secondary school), segments of levels (e.g., primary level or junior high school), specific grades, and specific years included in the curriculum improvement activity. (Op-All)

X 07 71.10 All Levels, Grades, and Years—All the levels, grades, and years which are included in the school system or school, not including any instruction in an adult education program. (Op-All)

X 07 71.20 Single School Level—A complete school level, i.e., elementary school, middle school, secondary school, or junior college level. (Op-All) This school level should be specified.

X 07 71.30 Major Segment of School Level—A major segment of a school level, e.g., kindergarten, primary grades, intermediate elementary grades, upper elementary grades, and junior high school. (Op-All) Any such segment should be specified.

X 07 71.40 Single Grade or Year, One Regular School Term—A single grade or year encompassing an entire regular school term. (Op-All) The grade or year should be specified. For illustration, the recommended subject matter of a single area (e.g., chemistry) for a single grade (e.g., grade 10) might comprise a guide for the instruction of a given course.

X 07 71.50 Single Grade or Year, Other Single Term—A portion of a single grade or year encompassing an entire term other than a regular school term, e.g., a semester, a quarter, or a trimester. (Op-All) The grade or year and the term should be specified.

X 07 71.60 Segment of Term—A portion of a regular school term, semester, quarter, trimester, or other term. (Op-All) For illustration, the recommended subject matter of a single area (e.g.,



chemistry) for a portion of a regular school term (e.g., 4 weeks) might comprise a guide for instruction of a given unit of instruction.

- Level or Years Preceding Those of School System X 07 71.70 (Op-All)
- Level or Years Following Those of School System X 07 71.80 -(Op-All)
- Scope of Content (1, 2)
 The range or extent of the subject-matter area X 07 72. or areas, or other content with which the curriculum improvement activity is concerned. (Op-All) Descriptions of the various subject-matter areas are included in chapters 5 and 6; descriptions of curriculum improvement activities are included
- under item X0760. matter areas generally included in the grades or years covered by the curriculum improvement activity. (Op-All) All Subject-matter X 07 72.10
- One or a Few Subject-matter Areas—(Op-All) X 07 72.20 The area or areas should be specified.
- Content Which is Not Subject-matter Oriented-X 07 72.30 E.g., information about behavioral growth and development, or about mental health. (Op-All) Any such content may be specified.
- X 07 79. Other Aspects of Scope Aspects of scope other than those aspects included under items X0771 and X0772. (Op-All) Any such aspects should be specified.
- CONTENT OF REPRODUCED MATERIALS X 07 80. (1, 2)

The content of reproduced materials developed through curriculum improvement activities, e.g., statements of philosophy, policy, need, and/or aims and objectives; an outline of subject matter; lists, or descriptions of learning experiences, teaching procedures, resources for instructors and/or resources for pupils; and/or evaluation procedures. (Op-All)

X 07 80.01

X 07 80.02

X 07 80.03 X 07 80.04

X 07 80.05

Statement of Philosophy—(Op-All)
Statement of Policy—(Op-All)
Statement of Need—(Op-All)
Statement of Aims and Objectives—(Op-All)
Outline of Subject Matter—(Op-All)
Outline or List of Learning Experiences— X 07 80.06 Op-All)

Op-All)

List of Resources for Instructors—(Op-All)

List of Resources for Pupils—(Op-All)

Evaluation Procedures—(Op-All)

Other Content—(Op-All) (Specify.) X 07 80.07 X 07 80.08

X 07 80.09 X 07 80.10 X 07 80.99

X 07 90. OTHER ASPECTS OF EVALUATION AND CURRICULUM IMPROVEMENT (1, 2, 3, 4)

Aspects of evaluation and curriculum improvement other than those included under items X0710 to X0780 e.g., time of year, length of time, and time of day. (Op-All) Any such aspect should be specified.

EVALUATING AND REPORTING PUPIL PROGRESS (2, 3, 4, 5)

X 08 00 Series

Items of information under this heading may be used to describe aspects of the marking system and the manner in which pupil progress is reported to parents, guardians, and pupils, e.g., the unit of value, marking scale, number of reporting periods, and method of reporting.

X 08 10. UNIT OF VALUE (2, 3, 4, 5)

Items under this heading may be used to describe units of value awarded for the successful completion of certain courses, intended to indicate the quantity of course instruction in relation to the total requirements for a diploma, certificate, or degree. Included here are terminology used for units of value and time requirements (such as class periods and minutes per week and the num-ber of weeks) for these units.

- Terminology Used for Unit of Value (2, 3, 4, 5) X 08 11. The terminology used in referring to units of value awarded for the successful completion of certain courses, e.g., unit, credit, semester credit hour, and quarter credit hour.
- X 08 11.10 Unit—A term frequently used in referring to a given number of hours of classroom and laboratory work during each week of a school term or to the total number of hours for an entire term. One type of unit, referred to as a "Carnegie unit," represents a year's study in a given subject (of at least 120 sixty-minute hours or their equivalent). (Op-Sec)
- Credit—A term having a similar meaning as "unit", defined in item X0811.10, sometimes used along with the term "unit" to represent a fraction or multiple of the "unit" value. (Op-X 08 11.20
- X 08 11.30 Semester Credit Hour-A term frequently used to indicate the number of hours (or equivalency) of instruction per week for a course during a school term of one semester. (Op-Sec, JrC,
- X 08 11.40 Quarter Credit Hour-A term frequently used to indicate the number of hours (or equivalency) of instruction per week for a course during a school term of one quarter. (Op-Sec, JrC,
- Accomplishment Unit-A measure of perform-X 08 11.50 ance indicating the satisfactory completion of a predetermined task or unit of work. (Op-Sec,
- Other Term—A term, other than those identified under items X0811.10 to X0811.50, used in X 08 11.90 referring to units of value awarded for the successful completion of certain courses. (Op-Sec, JrC, AdEd) Any such term should be specified.
- X 08 12. Class Periods or Modules Per Week Per Unit of Value (2, 3, 4)

The number of uniform class periods or modules per week, including time in laboratory experience, generally required for awarding one unit of value for the successful completion of a course, e.g., 1 class period, 5 class periods, and 9 or 10 modules. (Rec-Sec, JrC; Op-AdEd)

X 08 12.01

1 Class Period 2 or 3 Class Periods

X 08 12.02 X 08 12.03 4 Class Periods

X 08 12.04 5 Class Periods X 08 12.05

6 or 7 Class Periods 8 or 9 Class Periods

08 12.06

X 08 12.07 10 to 13 Class Periods

08 12.08 08 12.09 14 to 16 Class Periods 17 Class Periods and Over—(Specify.)

X 08 12.11 X 08 12.12 8 or Fewer Modules

9 or 10 Modules

X 08 12.13 X 08 12.14 11 or 12 Modules 13 to 15 Modules

16 Modules

X 08 12.15 X 08 12.16 X 08 12.17 X 08 12.18 17 to 20 Modules 21 to 24 Modules 25 to 29 Modules

X 08 12.19 30 or More Modules—(Specify.)



EVALUATING AND REPORTING PUPIL PROGRESS—Continued

Minutes Per Week Per Unit of Value (2, 3, 4) X 08 13. The number of minutes of instruction per week, including time in laboratory experiences and excluding time for passing between classes, generally required for awarding one unit of value for the successful completion of a course. (Rec-Sec, JrC; Op-AdEd) (NOTE: For a more precise indication of minutes of instruction per reports may indicate the first 2 digits of 3 digit numbers representing 10-minute time intervals, e.g., "18" for "180" minutes, "22" for "225" minutes.)

X 08 13.01 X 08 13.02 Less than 60 Minutes—(Specify.) 60 to 119 Minutes

120 to 179 Minutes 180 to 239 Minutes X 08 13.03

X 08 13.04

X 08 13.05 X 08 13.06 240 to 299 Minutes

300 to 359 Minutes

X 08 13.07 360 to 479 Minutes

X 08 13.08 480 to 599 Minutes

X 08 13.09 600 Minutes and More—(Specify.)

X 08 14. Portion of Regular School Term for Unit of Value

(2, 3)
The portion of the regular school term, or its equivalent, during which the given number of class periods or minutes per week (indicated in items X0812 or X0813) generally are required for awarding one unit of value for the successful completion of a course, e.g., one regular school term, one-half of a regular school term, and onethird of a regular school term.

X 08 14.10 One Regular School Term—The school term which usually begins in the late summer or fall and ends in the spring. (Rec-Sec, JrC; Op-

X 08 14.20 One-half Regular School Term-One-half of a regular school term, frequently referred to as a "semester." (Rec-Sec, JrC; Op-AdEd)

X 08 14.30 One-third Regular School Term-One-third of a regular school term, frequently referred to as a "quarter." (Rec-Sec, JrC; Op-AdEd)

X 08 14.90 Other Portion of Regular School Term—A portion of the school term other than those identified under items X0814.10 to X0814.30. (Rec-Sec, JrC; Op-AdEd) Any such portion should be specified.

X 08 15. Variations in Units of Value (2, 3, 4)

X 08 15.10 Units of Value Do Not Vary—(Op-Sec)

X 08 15.20 Units of Value Vary Among Programs of Studies
—(Op-Sec) Variations in time elements may be specified with designations from item X0600.

Units of Value Vary Among Courses—(Op-Sec) Variations in time elements may be specified X 08 15.30 with designations from item X0600.

X 08 20. CREDIT OR NONCREDIT (4)

An indication as to whether units of value are or are not awarded to pupils for the successful completion of the work of a given course.

Credit Awarded-Units of value awarded to all X 08 20.10 or some of the pupils for the successful completion of the work of the course. An indication may be made, as appropriate, for the number of units of value, the terminology used, and the type of weighting if any, for units of value of the course. In a junior college, an indication may be made to show whether credit is awarded for completion of a general education program, occupational program, or transfer program, or a combination of these. (Op-Sec, JrC) For a description of units of value, see item X0810.

X 08 20 .20 Credit Not Awarded—No units of value awarded for the successful completion of the work of the course. (Op-Sec, JrC)

X 08 30. MARKING SCALE (2, 3, 4)

The letters, numbers, words, percentages, or other symbols providing a measurement of pupil performance (achievement), proficiency, progress, effort, or citizenship.

X 08 30.10 Letters—E.g., A, B, C, D, F. (Op-All) If these letters are associated with standard words or phrases or with percentages, the relationships should be specified. Specify also if "pluses" (+) and/or "minuses" (-) are used with the letter marks.

X 08 30.20 Numbers—E.g., 4, 3, 2, 1, 0. (Op-All) If these numbers are associated with standard words or phrases or with percentages, the relationships should be specified.

Two-word Scale—E.g., pass or fail; satisfactory or unsatisfactory. (Op-All) X 08 30.30

X 08 30.40 Standard Words or Phrases-E.g., excellent, above average, average, below average, failing, incomplete, needs improvement in . . . , according to predetermined wording and sequence. (Op-All)

X 08 30.50 Percentages—E.g., 95%, 87%, 70%. (Op-All)

X 08 30.60 Descriptive Comments-Phrases, sentences, and paragraphs, not according to predetermined wording and sequence. (Op-All)

X 08 30.90 Other Scale—A scale, other than those identified under items X0830.10 to X0830.60, which is used to provide a measurement of pupil achievement, proficiency, or progress. (Op-All) Any such scale should be described or specified.

X 08 40. MARK VALUE FOR COURSES (2, 3, 4, 5)

The scale of numerical equivalents for marks awarded, indicating performance in schoolwork and use in determining pupil mark-point averages, e.g., A=4, B=3, C=2, D=1. These numerical equivalents should be specified wherever appropriate. The specific numerical equivalents in pupil ecords may be referred to as "mark points. The computation of mark-point averages is described in item X0870.

X 08 40.10 Mark Value Does Not Vary—(Op-Sec)

X 08 40.20 Mark Value Varies Among Programs of Studies -(Op-Sec)

X 08 40.30 Mark Value Varies Among Courses—(Op-Sec)

Mark Value Varies Among Sections of Courses—E.g., according to level of difficulty. (Op-Sec) X 08 40.40

X 08 50. NUMBER OF PUPIL REPORTS (2)

The number of times in a school term when members of the school staff report to parents routinely about pupil progress and performance. If required for some purpose, the number of days in each reporting period may be specified.

X 08 50.10 For Regular School Term—The number of pupil reports during the regular school term. (Op-Elem, Sec)

X 08 50.11 1 Report

2 Reports X 08 50.12

3 Reports X 08 50.13 X 08 50.14

4 Reports
5 Reports 08 50.15

X 08 50.16 6 Reports

X 08 50.18

8 Reports
Other Number of Reports—(Specify.) X 08 50.17

X 08 50.19 As Required

X 08 50.20 For Summer School Term-The number of pupil reports during the summer school term. (Op-Elem, Sec) For designations, see item X0850.10.



EVALUATING AND REPORTING PUPIL PROGRESS—Continued

MEANS OF REPORTING (2, 3, 4, 5)

The means by which routine information about pupil achievement or progress is communicated to parents, e.g., by use of a report card, letter, or note, or by personal conference.

Report Card-The formal, written notification X 08 60.10 to parents and/or guardians reporting achievement or progress of a pupil in various aspects of the school's instructional program. (Op-Elem, Sec)

X 08 60.20 Letter or Note-An informal written letter or note used by members of the school staff to report routine information about the pupil. (Op-Elem, Sec)

X 08 60.30 Parent Conference—A meeting in which a school staff member and parents together discuss and evaluate the achievement and progress of the pupil and the suitability of the instructional program to the needs of the pupil. This may take place at the school or in the home. In some instances, the pupil and/or additional staff members may take part in the conference. (Op-Elem, Sec)

Other Means of Reporting—Means, other than those identified under items X0860.10 to X 08 60.90 X0860.30, by which routine information about pupil achievement or progress is communicated to parents, e.g., a telephone call for informal contact. (Op-Elem, Sec) Any such means should be specified.

X 08 70. MARK-POINT AVERAGE (2, 3)

A measure of average performance in all courses taken by a pupil during a marking period, school term, or year—or accumulated for several school terms or years—obtained by dividing total mark points by total courses or by hours of instruction per week. Included under this heading is information about the frequency and scope of markpoint averages.

X 08 71. Frequency of Computation—(Op-Sec) (2)

X 08 71.10 Once in Regular School Term

X 08 71.20 Once in Subdivision of Regular School Term-E.g., semester, quarter.

X 08 71.30 Every Marking Period

X 08 71.40 Other Frequency

X 08 71.90 Mark-point Average Not Computed

X 08 72. Courses Included in Mark-point Average (2, 3)

X 08 72.10 Every Course—(Op-Sec)

Not Every Course-Performance in certain X 08 72.20 courses is not included in mark-point averages. (Op-Sec) These courses may be specified.

X 08 80. HONOR ROLL (2)

A list of names published each marking period, term, or year indicating pupils who have achieved a set standard of performance in their schoolwork.

Frequency of Honor Roll—(Op-Sec)

X 08 81.10 Once in Regular School Term

Once in Subdivision of Regular School Term-X 08 81.20 E.g., semester, quarter

Every Marking Period X 08 81.30

X 08 81.40 Once Every Marking Period and Semester or Ouarter

X 08 81.80 Other Frequency

X 08 81.90 Honor Roll Not Prepared

PUPILS SERVED (2, 3, 4, 5) X 09 00 Series

Items of information under this heading may be used to describe the number of pupils served and

selected characteristics of pupil groups, e.g., sex, race, ethnic origin, religion, socioeconomic background, and handicaps. Many of these items have been drawn from Handbook V, Pupil Accounting for Local and State School Systems. 17

X 09 10. NUMBER OF PUPILS SERVED (2, 3, 4, 5)

X 09 11.

Fall Membership of School (2)
The number of full-time pupils in membership on or about October 1, or the nearest date thereto when the membership can be considered stabilized for the regular school term. (Rec-All)

X 09 12.

Full-time Pupils (2, 3)

The number of pupils carrying a full course load, as determined by the State or local school system, as of a given date other than in the fall as included under item X0911. (Op-JrC, AdEd)

X 09 13. Part-time Pupils (2, 3) The number of pupils carrying less than a full course load as determined by the State or the local school system. (Op-JrC, AdEd) Also included under this heading, as a separate record, is information about part-time pupils who may be participating in shared time programs with other schools where they are considered to be full-time pupils.

X 09 14. Full-time Equivalency of Pupils (2, 3) The number of pupils carrying a full course load, as determined by the State or local school

system, plus an appropriate fraction or decimal for each pupil carrying less than a full load. (Op-JrC, AdEd)

Number of Pupils in Self-contained Class, Course, or Section (4, 5) X 09 15.

The number of pupils in membership as of a given date, e.g., October 1 or the nearest date thereto when the membership can be considered stabilized for the school term. (Op-All)

BASIS FOR SELECTION OR GROUPING (2, 3, 4, 5) X 09 20.

The nature of distinctive pupil groups served by a self-contained class, course, or cocurricular activity, i.e., an unselected grouping of pupils, and pupils in a selected grouping such as the gifted and talented, the physically handicapped, and males only or females only.

Unselected Grouping—A grouping composed of the normal range of pupils in most of the X 09 20.10 schools, courses, or classes serving a given age group. (Rec-All) For certain purposes such a grouping may be referred to as a "heterogeneous grouping.

X 09 20.20 Selected Grouping—A grouping composed only of pupils having one or more specified characteristics such as the gifted and talented (see item X0960.10), underachieving pupils (see item X0950.30), the mentally retarded (see item X0960.30), the physically handicapped (see item X0960.40), the socially and/or emotionally handicapped (see item X0960.40), the socially and/or emotionally handicapped (see item X0960.50), the culturally disadvantaged (see item X0945.10), and males only or females only (see item X0930.) (Rec-All) These characteristics should be specified. When a selected grouping has a relatively high degree of similarity in regard to certain factors that affect learning, it may be referred to as a "homogeneous grouping."

X 09 30. SEX OF PUPILS (2, 3) X 09 30.10 Both Males and Females



¹⁷ John F. Putnam and George G. Tankard, Jr., op. cit.

09 PUPILS SERVED—Continued

X 09 30.11 Coeducational—A student body including boys and girls (or men and women) on the same campus, frequently in the same classes. (Rec-All)

X 09 30.12 Coordinate—A student body including boys and girls (or men and women), who attend separate classes, frequently in different buildings and/or on separate campuses. (Rec-All)

X 09 30.20 Males Only—(Rec-All) X 09 30.30 Females Only—(Rec-All)

X 09 40. PUPIL BACKGROUND (2, 3, 4, 5)

Included under this heading are items of information descriptive of the pupils' backgrounds, e.g., race, ethnic origin, religion, socioeconomic background, and cultural handicaps. Other considerations are included under item X0710.30, Characteristics of the Community, and items X0710.50 to X0710.69, Characteristics and Needs of Pupils.

X 09 41. Race (2)

The racial origin of various pupil groups, according to State or local classification and definition, e.g., American Indian, Eskimo, and Negro. (Op-All)

X 09 42. Ethnic Origin (2)

The ethnic origin of various pupil groups, according to State or local classification and definition, e.g., Mexican-American, Japanese-American, and Puerto Rican-American. (Op-Elem, Sec, AdEd)

X 09 43. Religion (2)

The religious preference of various pupil groups, as indicated by the pupils or their families. (Op-All)

X 09 44. Socioeconomic Background (2)

The socioeconomic background of the student body, as indicated by factors such as the occupation and education of the parents of the pupils. (Op-Elem, Sec, AdEd)

X 09 45. Cultural Handicaps (3)

Deviations or deficiencies in cultural or environmental background that adversely affect school performance or learning. Pupils having such deviations or deficiencies may be identified with groups such as the culturally disadvantaged, non-English speaking, migrant children, and functionally illiterate.

X 09 45.10 Culturally Disadvantaged—Pupils whose cultural background is so different from that of most pupils that they have been identified by professionally qualified personnel as needing additional educational opportunities beyond those provided in the usual school program if they are to be educated to the level of their ability. Certain types of programs for culturally disadvantaged pupils are referred to as "compensatory education programs." (Rec-Elem, Sec, AdEd)

X 09 45.20 Inability to Speak Language of Instruction— Pupils whose lack of competence in the language of instruction is so great that they are unable to profit from the usual classroom instruction. (Rec-Elem, Sec, AdEd) The primary language spoken by the pupils, or the language customarily spoken in their residences, should be specified.

X 09 45.30 Migrant Children—Children whose parents are migrant workers. 18 (Rec-Elem, Sec) For school purposes, the term refers to such children within the age limits for which the local school district provides free public education.

X 09 45.40 Functionally Illiterate—Individuals who are unable to read, write, and compute sufficiently well to meet the requirements of adult life. (Rec-AdEd) This frequently is considered to include adults who have not gone beyond the eighth grade or who cannot read, write, and compute at or above an eighth grade level of performance. In the United States this term usually is applied also to foreign born adults having limited ability to use the English language.

X 09 45.90 Other Cultural Handicaps—Pupils identified by professionally qualified personnel as being culturally handicapped in a manner other than those identified under items X0945.10 to X0945.40, e.g., culturally different, parentally neglected, and economically disadvantaged. (Rec-Elem, Sec, AdEd)

X 09 49. Other Background Factors (2)
Factors descriptive of pupils' backgrounds other than those included under items X0941 to X0945. (Op-All) Any such factor should be specified.

X 09 50. PUPILS WITHIN THE NORMAL RANGE OF ABILITY AND PERFORMANCE (2, 3, 4, 5)

Included under this heading are items of information identifying those pupils generally considered to be within the normal range of ability and performance, including underachieving pupils and slow learners.

X 09 50.10 Ungrouped Pupils Within the Normal Range— The general type of pupils in most of the schools, courses, or classes serving pupils of a given age group. (Rec-All)

X 09 50.20 Underachieving Pupils—Pupils who score consistently and significantly below their expected performance levels on standardized achievement tests. (Rec-Elem, Sec) Their expected performance levels are determined by using scores on standardized tests of ability to predict performance on standardized tests of achievement.

X 09 50.30 Slow Learners—Pupils who display evidence of having difficulty in adjusting to the usual curriculum in academic areas, requiring modification of school offerings within the regular classroom in order to attain maximum growth and development. (Rec-Elem, Sec, AdEd; Op-JrC)

X 09 50.90 Other Groups of Pupils Within the Normal Range of Ability and Performance

X 09 50.91 Prekindergarten Age—(Op-Elem)

X 09 50.92 Former Dropouts—Pupils who have returned to school after dropping out; that is, pupils whose most recent formal education was in an elementary or secondary school and who withdrew from this school by dropping out. (Op-Sec, JrC, AdEd)

X 09 50.93 Employed Youth Under Age 18—Persons under 18 years of age who have not completed secondary school and who left full-time instruction to enter the labor force. (Op-Sec, AdEd)

X 09 50.94 Pregnant Girls—(Op-Sec, AdEd)

X 09 50.95 Adult Age—(Op-Sec, JrC, AdEd)

X 09 50.96 Parents—Parents of school children and children of preschool age. (Op-All)

X 09 50.99 Other Characteristics—Distinctive characteristics of pupils with the normal range of ability and performance and not identified elsewhere under the X0950 Series, e.g., pupils in a given program of studies, or refugees. (Op-All) Any such characteristic should be specified.



¹⁸ A definition for "Migrant Worker" may be found in the glossary.

09 PUPILS SERVED—Continued

X 09 60. PUPILS OUTSIDE THE NORMAL RANGE

OF ABILITY AND PERFORMANCE (2, 3, 4, 5)
Included under this heading are items of information identifying those pupils generally considered to be outside the normal range of ability and performance, including the gifted, talented, mentally retarded, physically handicapped, socially handicapped, and emotionally handicapped. Pupils who are culturally handicapped are identified under item X0945.

Gifted and Talented—Pupils identified by professionally qualified personnel as being mentally gifted or talented in areas such as the following: (Rec-All)

In General Academic Work-Including mathe-X 09 60.11 matics, science, social studies, reading, foreign languages, and other language arts. (Op-All) In Fine Arts Areas—Including music, dance, arts of design, and dramatics. (Op-All) X 09 60.12

X 09 60.13 In Vocational and Technical Areas—(Op-All) X 09 60.19 In Other Areas-Including athletics, human relationships, and creativity in areas not identified above. (Op-All)

Mentally Retarded-Pupils identified by pro-X 09 60.30 fessionally qualified personnel as being mentally retarded, according to degree of retardation. This includes those individuals whose level of mental development is such that they have been identified as unable, without special help, to profit from the usual school program. Children in this category are classified educationally as educable mentally retarded, trainable mentally retarded, and severely mentally retarded.

Educable Mentally Retarded-Mentally re-X 09 60.31 tarded individuals who are educable in the academic, social, and occupational areas, even though moderate supervision may be necessary. (Rec-Elem, Sec; Op-AdEd)

Trainable Mentally Retarded—Mentally retarded individuals for whom little or no self-X 09 60.32 support is anticipated, although some improvement in performance is possible, especially in self-care, social and emotional adjustment, and economic usefulness in the home or a sheltered environment. (Rec-Elem, Sec; Op-AdEd) These individuals probably will require a sheltered environment and major supervision throughout their lives.

Severely Mentally Retarded—Mentally retarded individuals for whom neither self-X 09 60.33 support nor significant improvement in performance is anticipated. (Rec-Elem)

Physically Handicapped—Pupils identified by professionally qualified personnel as having one or more physical handicaps, e.g., the blind, the hard of hearing, the speech impaired, and the X 09 60.40 crippled.

X 09 60.41 Blind—(Rec-All) Partially Seeing—(Rec-All) X 09 60.42 X 09 60.43 Deaf-(Rec-All)

X 09 60.44 ${\it Hard\ of\ Hearing} \hbox{---} (Rec\hbox{--}All)$

Speech Impaired—Individuals having unusual X 09 60.45 difficulty in oral communication. (Rec-All)

¹⁹ As the term is used in this handbook, the "mentally gifted" include individuals whose level of mental development is so far advanced that they have been identified by professionally qualified personnel as needing additional educational opportunities beyond what is provided by the usual school program if they are to be educated to the level of their ability.
²⁰ As the term is used in this handbook, the "talented" include individuals identified by professionally qualified personnel as being capable of high performance in one or more areas of special competence. Among these areas of special competence. Among these areas of special competences, and facility in the productive and performing arts.

X 09 60.46

Crippled—Individuals with a physical impairment of a type which might restrict normal opportunity for education or self-support. (Rec-All) This term is generally considered to include individuals having impairments caused by a congenital anomaly (e.g., cleft palate, clubfoot, absence of some manufacture of the contraction of the contr member, etc.), impairments caused by disease (e.g., poliomyelitis, bone tuberculosis, encephalitis and other neurological involvements which may result in conditions such as cerebral palsy or epilepsy, etc.), and impairments caused by accident (e.g., fractures or burns which cause contractures, etc.).

X 09 60.47 Pupils with Special Physical Health Problems-Pupils identified by professionally qualified personnel as having—either permanently or periodically—less than the usual amount of strength, energy, and endurance and hence may need appropriate modifications in their educational program. (Rec-All) Such a con-dition might result from chronic illness or environmental causes, e.g., diabetes, epilepsy, cardiac disease, and lead poisoning.

Socially and/or Emotionally Handicapped—Pupils identified by professionally qualified personnel as having a social and/or emotional X 09 60.50 handicap, e.g., emotionally disturbed and de-linquency prone. Pupils having a cultural handicap are included under item X0945, Cultural Handicaps.

Emotionally Disturbed-Pupils identified by X 09 60.51 professionally qualified personnel as having an emotional handicap of such a nature and severity as to require one or more special services, whether or not such services are available. Such services include institutional care, other professional treatment or care, and instruction in special classes for exceptional pupils on a full-time or part-time basis. (Rec-Elem, Sec)

X 09 60.52 Delinquency Prone-Children and youth who have been identified by professionally qualifield personnel as having a strong tendency toward committing acts which are classified as falling within patterns of delinquent behavior. (Rec-Elem, Sec)

Other Social and/or Emotional Handicaps—Pupils identified by professionally qualified personnel as being socially and/or emotionally handicapped in a manner other than those identified under items X0950.51 and X0950.52, e.g., children addicted to hallucinogens or other deviant drugs. (Rec-Elem, Sec) The nature of their handicap should be specified. X 09 60 59 specified.

Pupils with Learning Disabilities—Pupils identified by professionally qualified personnel as X 09 60.60 having sharp deficits in one or a limited number of aspects of the cognitive processes (i.e., of the sensory, associative, and expressive processes) and marked underachievement when considering the general level or mode of their overall abilities. Many such pupils also are said to have "brain injury (Strauss syndrome)," "perceptual handicaps," or "minimal brain dysfunction." For reporting purposes, pupils with learning disabilities should be identified also according to other characteristics (as being within the normal range of pupils; as being gifted or talented; as being slow learners, mentally retarded, partially seeing, hard of hearing, or speech impaired; or as having other specified types of handicaps). In each case, the distinguishing features are (1) the sharp imbalance within the pupil's cognitive development and (2) a marked underachievement.



09 PUPILS SERVED—Continued

Other Groups of Pupils Outside the Normal Range of Ability and Performance X 09 60.90

Multiple Handicapped—Pupils having more than one handicap. (Rec-Elem, Sec; Op-JrC, AdEd) These pupils should be identified also according to the nature of each handicap as X 09 60.91 indicated elsewhere in the X0900 Series.

Other Characteristics—Distinctive characteristics of pupils outside the normal range of X 09 80.99 ability and performance not identified elsewhere under the X0960 Series. (Op-All) Any such characteristic should be specified.

X 09 70. INTRASCHOOL AND/OR INTERSCHOOL ACTIVITY (4)

An indication as to whether a cocurricular activity involves pupils of a single school or

includes participation or competition among pupils of various schools.

X 09 70.10 Intraschool Activity—An activity involving pupils of one school only. (Op-Sec, JrC)

Interschool Activity-An activity involving par-X 09 70.20 ticipation or competition with pupils of other schools. (Op-Sec, JrC)

X 09 80. IDENTIFICATION OF PUPILS IN SECTION

(5)
The name and pupil number of all pupils enrolled in a section.

X 09 81. Names of Pupils—(Rec-All) X 09 82. Pupil Numbers—(Rec-All)

ENTRANCE (2, 3, 4, 5) X 10 00 Series

Items of information under this heading may be used to indicate the requirements for entrance of pupils into a school, program of studies, self-contained class, course, or cocurricular activity; the condition under which a class or course is required or elective; and procedures utilized to help orient new pupils to the school or aspects of the school program.

X 10 10. REQUIREMENTS FOR ENTRANCE (2, 3, 4) The legal and other requirements for entrance of pupils into a school, program of studies, selfcontained class, course, cocurricular activity, or section, e.g., age, grade or year standing, achievement, recommendation, and location of residence.

X 10 10.01 Location of Residence—Residence within a given school attendance area. (Op-All) Any specific geographic area which is served by the school—and its physical relationship to other areas of the school district—should be described in the records of the school system and school.

X 10 10.02 Course or Courses Previously Completed—Successful completion of one or more specific courses, classes, or activities. (Op-Sec, JrC, AdEd) Any such prerequisite should be specified.

X 10 10.03 Enrollment in Given Program of Studies—(Op-Sec, JrC, AdEd) Any such program of studies, or type of program, should be specified.

Achievement in Schoolwork—The quality or achievement in general schoolwork or in specific portions of schoolwork, as indicated by performance in previous courses or classes. (Op-Sec, JrC, AdEd) Any relevant area of schoolwork X 10 10.04 and level of performance should be specified. Performance on an examination or standardized test is included under item X1110.16.

X 10 10.05 Age—A specified minimum and/or maximum age of pupils. (Op-All) Designations are included under item X0310. X 10 10.06 Court Commitment—Commitment or assignment by a judge or court of law, including but not limited to a school located in a correctional institution or detention home. (Op-Elem, Sec,

X 10 10.07 Current Employment-The nature of current employment, the course, class, or program of studies being available only to currently employed pupils to upgrade or update their occupational skills and knowledge. (Op-AdEd)

Employability—Employability, the course, class, or program of studies being available only to pupils considered employable in the specific X 10 10.08 occupations or cluster of closely related occupations for which the course, class, or program provides preparation. (Op-Sec, AdEd)

X 10 10.09 Grade or Year Standing-A given grade or year standing of pupils within the school. (Op-Sec, JrC) This standing should be specified, using designations from items X0320 and X0330.

X 10 10.10 No Requirement-No entrance requirements exist, the course, class, program of studies, or activity being available to all pupils of the school. (Op-Sec, JrC, AdEd)

X 10 10.11 Payment of Tuition and/or Fee-(Rec-All)

X 10 10.12 Recommendation of Psychologist-(Rec-Elem,

X 10 10.13 Recommendation of Teachers, Counselor, and/or Principal—The recommendation of previous teachers, counselor, and/or principal. (Rec-Elem, Sec, JrC) Judgment as to employability should not be included here but, instead, should be included under item X1010.09.

Special Pupil Ability, Aptitude, or Interest—A special or specific minimum level of abilities, X 10 10.14 aptitudes, and interests, e.g., talent in dance, dramatics, and/or music. (Op-All) Any such requirement should be specified.

X 10 10.15 Special Pupil Need—(Rec-Elem, Sec) Any such need should be specified.

Successful Completion of Entrance Examination or Other Test—The successful completion X 10 10.16 of a standard entrance examination, achievement test, aptitude test, or other test, as required for all pupils or for specified groups of pupils. (Op-All) Details may be specified when reporting about this requirement.

X 10 10.99 Other Requirements—Requirements for entrance other than those identified under items X1010.01 to X1010.16, e.g., ancestry, occupation or employer of parents, previous attendance at an accredited school, and availability of transportation (including parental acceptance of responsibility of transportation). (Rec-Elem, Sec; Op-JrC, AdEd) Any such requirement should be specified.

X 10 20. REQUIRED OR ELECTIVE (4)

An indication as to whether a course or selfcontained class is required or elective for all pupils of the school in completing their schoolwork or for certain groups or pupils.

X 10 20.10 Required for All Pupils—Required for all pupils of the school in completing their schoolwork. (Op-Sec, JrC)

Required for Pupils in Specified Programs of Studies—Not required of all pupils, but required for pupils in one or more types of programs of studies, as indicated below. These programs are described in the X0243 Series. For programs of occupational preparation, the area of occupational specialization should be specified. X 10 20.20

College Preparatory Program—(Op-Sec) General Education Program—(Op-Sec, JrC) Occupational Program—(Op-Sec, JrC, AdEd) X 10 20.31 X 10 20 .41 X 10 20 .42 X 10 20.51



10 ENTRANCE—Continued

Other Program of Studies—(Specify.) (Op-Sec, JrC, AdEd) X 10 20.59

Required for All Pupils in Area of Specialization within Program—Not required of all pupils in X 10 20.60 a given type of program of studies, but required for pupils in a specific area of specialization within the program of studies, as this area is identified under items X2141, X2142, and X2144. (Op-Sec, JrC, AdEd)

X 10 20.70 Elective for All Pupils-Elective for all pupils in the school as a portion of the requirements for completing their schoolwork. (Op-Sec, JrC)

Elective for Pupils in Specified Programs of X 10 20.80 Studies-Available only to pupils in specified programs of studies, but on an elective basis. (Op-Sec, JrC, AdEd) For designations of programs of studies, see items X1020.20 or X0243.

X 10 30. ORIENTATION PRACTICES (2, 3)

Procedures for orienting new pupils into a school or program of studies, including informing pupils and parents about the facilities, personnel, rules, tradition, instructional offerings, and evaluation procedures. (Op-All) Such orientation may be provided prior to and/or shortly following the pupils' first days of membership.

PROGRESS AND PROMOTION PRACTICES (2)

X 11 00 Series

Items of information under this heading may be used to describe aspects of a school's promotion practices, e.g., the types of promotion, bases for promotion, and promotion period.

X 10 10. TYPE OF PROMOTION PRACTICE (2) The types of promotion practices within the school, e.g., regular promotion, accelerated promotion, probationary promotion, and variable

progress.

Regular Promotion-A promotion in a graded X 11 10.10 situation of a grade a year or of a half-grade a semester. (Op-Elem, Sec)

Accelerated Promotion—A promotion indicating X 11 10.20 progress which is more rapid than the usual practice; this may involve a "double promotion" (two grades' progress in one year) or some other arrangement for promoting a child at a rate more rapid than one grade per year. (Op-Elem)

Continuous Promotion—The practice of promoting pupils on the basis of chronological age. (Op-Elem) X 11 10.30

Nonpromotion—The retaining of a pupil in his current grade at the end of the regular school term or at another time when most pupils are X 11 10.40 promoted. (Op-Elem)

Probationary Promotion — An arrangement whereby a pupil is promoted to the next higher grade on a trial basis in order that his progress and adjustment might be observed; if these prove satisfactory, the pupil is retained in the higher grade. (Op-Elem) X 11 10.50

Variable Progress—The practice of grouping in which individual promotions are based on a number of factors including not only changes X 11 10.60 in chronological age, intellectual development, and achievement, but physical, social, and emotional factors as well. (Op-Elem, Sec) This involves reconstituting, at frequent intervals, small instructional groups within a class or larger group in order to provide for the uniqueness of each pupil in pattern and rate of development and learning.

Other Type of Promotion—A type of promotion other than those identified under items X1110.10 to X1110.60. (Op-Elem) Any such type of promotion should be specified. X 11 10.90

X 11 20. BASES FOR PROMOTION (2) Primary consideration of school staff members in determining whether or not pupils qualify for promotion, e.g., achievement, chronological age, and social maturity.

X 11 20.10 Achievement-Accomplishment or proficiency of performance in a given skill or body of knowledge. (Op-Elem, Sec)

Chronological Age—(Op-Elem, Sec) X 11 20.20

Intellectual Development-The stage reached in X 11 20.30 the progressive growth and organization of mental functions and psychological behavior of the pupil. (Op-Elem, Sec)

Social Maturity—The stage reached in the progressive development of the pupil's attitudes, understandings, feelings, and skills with respect to social relationships and social institutions (On Flan San) X 11 20.40 tions. (Op-Elem, Sec)

Time in Class—The amount of time that has elapsed since the pupil entered the class, or the equivalent of this amount of time. (Op-X 11 20.50 Elem, Sec)

Other Basis—A primary consideration, other than those identified under items X1120.10 to X 11 20.90 X1120.50, which helps school staff members promotion, e.g., total development of pupils. (Op-Elem, Sec) Any such basis should be specified.

X 11 30. PROMOTION PERIOD (2) The frequency, or regular time of year, at which promotions usually are made from one class, grade, or school to another, e.g., annual, semi-

Annual—Promotions usually made once a year, generally at the close of the regular school term. (Op-Elem, Sec, JrC) X 11 30.10

annual, and flexible.

Semiannual-Promotions usually made twice a X 11 30.20 year, generally at the close of the first semester and at the close of the regular school term. (Op-Elem, Sec, JrC)

Flexible-Promotions made whenever pupils X 11 30.30 qualify for promotion. (Op-Elem, Sec)

Other Period—A frequency or time of year, other than those identified under items X1130.10 to X1130.30, when promotions usually are made from one class, grade, or school to another. (Op-Elem, Sec, JrC) Any such period should be specified. X 11 30.90

COMPLETION PRACTICES (2, 3, 4, 5) X 12 00 Series

Items of information under this heading may be used to describe aspects of the school's practices for graduation or promotion to another school in the school system, for successful completion of a course or class, and for terminating the membership of pupils.

REQUIREMENTS FOR SUCCESSFUL COM-X 12 10. PLETION OR GRADUATION (2, 3, 4)

The minimum educational achievement or other qualifications for the successful completion of a program of studies, course, or class, e.g., general achievement in school work, successful



12 COMPLETION PRACTICES—Continued

completion of an equivalency examination, and successful completion of a given number of courses or of specified courses.

- X 12 10.10 Completion of a Minimum Number of Units of Value—The successful completion of a given number of courses in a program of studies, as indicated by designations for units of value (such as units, credits, semester credit hours, and quarter credit hours). (Rec-Sec, JrC, AdEd) A description of units of value is included under item X0810.
- X 12 10.11 Total Number—A specified minimum total number of units of value. (Op–Sec, JrC, AdEd)
- X 12 10.12 Number in Required Courses in Area of Major Specialization—A specified number of units of value in specified required courses in the area of major specialization. (Op-Sec, JrC, AdEd)
- X 12 10.13 Number in Required Courses in Area of Minor Specialization—A specified number of units of value in specified required courses in the area of minor specialization. (Op-Sec, JrC, AdEd)
- X 12 10.14 Number in Elective Courses—A specified number of units of value in elective courses. (Op-Sec, JrC, AdEd)
- X 12 10.15 Noncredit Courses Required—Courses required, if any, for which no units of value are awarded. (Op-Sec, JrC, AdEd)
- X 12 10.20 General Performance or Achievement in Schoolwork—The attainment of a stated proficiency or the surpassing of a minimum level of general performance in a specified quantity of schoolwork or in specified areas of studies, as indicated by general performance or by achievement on comprehensive examinations in these areas of study. (Rec-Sec, JrC, AdEd)
- X 12 10.30 Equivalency Examination—Satisfactory scores on an examination, approved by a State department of education or other authorized agency, intended to provide an appraisal of the pupil's ability or achievement in the subject areas regularly required for high school graduation. (Rec-Sec)
- X 12 10.40 Age—Attainment of a specified age, resulting in termination of pupils' work in the program, course, or self-contained class. (Op-Elem, Sec)
- X 12 10.50 Duration of Time—A specified number of years, semesters, weeks, days, or the like for pupils' work in the program, course, or self-contained class. (Op-Elem, Sec)
- X 12 10.90 Other Requirements—Requirements for completion or graduation, other than those identified under items X1210.10 to X1210.50, e.g., a requirement for duration of time as a full-time pupil. (Rec-Sec, JrC, AdEd) Any such requirement should be specified.
- X 12 20. RECOGNITION FOR COMPLETION (2, 3, 4)

 The nature of the certificate or other recognition given pupils for successful completion of a program of studies, course, class, or cocurricular activity, or for graduation from a school, e.g., a diploma or other certificate, promotion to the next school, and awarding of units of value.
- X 12 21. Recognition for Graduation or Completion of Program of Studies (2, 3)

 The nature of the certificate or other recognition

The nature of the certificate or other recognition given pupils for the successful completion of the program of studies or for graduation, e.g., a diploma, an equivalency certificate, an associate degree, and promotion to the next school. Frequently, such recognition is bestowed at a formal graduation ceremony. It implies completion of

the program of studies and indicates usually that pupils are prepared for a more advanced level of instruction.

- X 12 21.10 High School Diploma—A formal document certifying the successful completion of a prescribed secondary school program of studies. In some States or communities, high school diplomas are differentiated by type such as an academic diploma, a general diploma, or a vocational diploma. (Rec-Sec, AdEd)
- X 12 21.11 Uniform High School Diploma—A formal document certifying the completion of the prescribed work of a secondary school, without differentiation according to type of program. (Rec-Sec, AdEd)
- X 12 21.12

 Differentiated High School Diplomas—Formal documents certifying the completion of prescribed secondary school programs of studies, with a differentiation in type of diploma according to program, e.g., academic diploma, general diploma, and vocational diploma. (Rec-Sec, AdEd) Any such differentiated diploma may be specified.
- X 12 21.20 Certificate of High School Equivalency—A formal document issued by a State department of education or other authorized agency certifying that an individual has met the State requirements for high school graduation equivalency by (a) attaining satisfactory scores on an approved examination or (b) earning the required number of credits in an organized program of approved instruction. (Rec-Sec, AdEd)
- X 12 21.30 Certificate of Completion—A document certifying the satisfactory completion of a course or a program of studies. (Rec-All) This document frequently is awarded for courses for which credit toward graduation is not granted. This document sometimes is referred to as a "certificate of training."
- X 12 21.40 Certificate of Attendance—A document certifying the presence of the pupil at school during given years or on given days. This document sometimes is awarded in lieu of a diploma or certificate of completion. (Rec-Sec, AdEd)
- X 12 21.50 Associate Degree—A degree commonly conferred upon the successful completion of a 2-year program of studies of a junior college or technical institute. (Rec-JrC)
- X 12 21.60 Other Certificate or Degree—A certificate or degree other than those identified under items X1321.10 to X1321.50. (Rec-Sec, JrC, AdEd) The nature of any such certificate or degree should be specified.
- X 12 21.70 Promotion to Next School—The promotion of pupils to the next school—e.g., from an elementary school to a secondary school—without the awarding of a certificate. (Rec-Elem, Sec, JrC)
- X 12 21.80 No Recognition—No recognition is given pupils for the successful completion of the work of the school or program of studies. (Rec-Elem, Sec, AdEd)
- X 12 21.90 Other Recognition—Recognition, other than that indicated under items X1221.10 to X1221.70, given pupils for the successful completion of a program of studies. (Rec-All) The nature of any such recognition should be specified.
- X 12 22. Recognition for Completion of Self-contained Class, Course, or Cocurricular Activity (4)

 The nature of recognition given pupils for the successful completion of the work of a self-contained class, course, or cocurricular activity, e.g., awarding of units of value or a certificate, and no special recognition.
- X 12 22.01 Awarding of Units of Value—The awarding of units of value, e.g., 1 unit, 1 credit, 3 semester



12 COMPLETION PRACTICES—Continued

credit hours, and 4 quarter credit hours. (Rec-Sec, JrC, AdEd) A description of units of value is included under item X0810.

- X 12 22.02 Completion of Requirement, But No Units of Value Awarded—The successful completion of a requirement of a program of studies, without the awarding of any units of value. (Rec-Sec, JrC, AdEd)
- X 12 22.03 Certificate—The awarding of a certificate of completion, certificate of attendance, certificate of participation, or other certificate. (Rec-Sec, JrC, AdEd)
- X 12 22.04 Honor Award—An award in recognition of outstanding achievement, which may be instead of or in addition to other recognition as identified under items X1222.01 to X1222.03. (Rec-Sec, JrC, AdEd)
- X 12 22.05 Letter of Commendation—The awarding of a written letter, usually prepared and signed by the principal of the school, commending the pupil for the nature of his participation in a cocurricular activity. (Op-Sec)
- X 12 22.06 Monogram—The awarding of a school alphabetic letter or monogram in recognition of active participation or outstanding achievement in scholastic performance, service, or school or interschool activity. (Op-Sec, JrC)
- X 12 22.07 Points—The awarding of "points" which may be applied, as units of value, toward the completion of requirements for a diploma or certificate. (Op-Sec, JrC)
- X 12 22.08 Promotion or Advancement—The promotion of pupils to the next self-contained class or course in the sequence of classes or courses, without awarding units of value or a certificate; or advancement to a more advanced section of the same activity, or to a similar activity, requiring a greater degree of ability for successful participation. (Rec-All)
- X 12 22.88 No Special Recognition—No special recognition is given pupils for the successful completion of the work of the self-contained class, course, or cocurricular activity. (Rec-Sec, JrC, AdEd)
- X 12 22 .99 Other Recognition—Recognition, other than that identified under items X1222.01 to X1222.08, given pupils for the successful completion of the work of the self-contained class, course, or cocurricular activity. (Op-Sec, JrC, AdEd) The nature of any such recognition should be specified.
- X 12 30. OTHER TERMINATION PRACTICES (2, 3)

Items of information under this heading may be used to describe aspects of practices by which the school acts to terminate the membership of pupils who have not successfully completed the requirements of a program of studies; that is, the type of practice and reason for terminating membership. Reasons for dropping out may be found in Handbook V, Pupil Accounting for Local and State School Systems.²¹

- X 12 31. Type of Practice (2)

 The nature of practices by which the school may act to terminate the membership of pupils. Reasons for taking such action are included under item X1232, Reasons for Terminating Membership.
- X 12 31.10 Expulsion: Unsatisfactory Achievement—The action, taken by school authorities, compelling a pupil to withdraw from school for reasons such as unsatisfactory achievement or progress in school work. (Op-Sec, JrC, AdEd)

- X 12 31.20 Expulsion: Unsatisfactory Behavior—The action, taken by school authorities, compelling a pupil to withdraw from school for reasons such as extreme misbehavior and incorrigibility. (Op-Elem, Sec)
- X 12 31.30 Legal Exclusion—The act of excluding children from school—i.e., not enrolling them—for legal reasons. A child of compulsory school attendance age who is not required to attend school for such a legal reason is referred to as an "exempted child." (Op-Elem, Sec)
- X 12 31.40 Probation—The act of suspending disciplinary action, such as expulsion, pending satisfactory achievement or good behavior on the part of the pupil. (Op-Elem, Sec)
- X 12 31.50 Recommended Transfer or Other Withdrawal—Recommendation by members of the school staff to parents of the pupil, or to his guardians or to the pupil himself, that the pupil transfer to another school or withdraw in some other manner from this school, with any subsequent action being taken by the pupil, parent, or guardian. (Op-Elem, See)
- X 12 31.60 Suspension—Temporary dismissal of a pupil from school by duly authorized school personnel in accordance with established regulations. (Op-Elem, Sec)
- X 12 31.90 Other Practice—Practices, other than those identified under items X1231.10 to X1231.60, by which the school acts to terminate the membership of pupils. (Op-Elem, Sec) Any such practice should be specified.
- X 12 32. Reasons for Terminating Membership (2)

 The reason for which the school acts to terminate the membership of pupils or refuses to enroll them.
- X 12 32.10 Underage—The individual has not yet reached the minimum age at which children or youth are permitted to enter the school. (Op-Elem, Sec)
- X 12 32.20 Overage—The individual has passed the maximum age at which children, youths, and adults are permitted to attend or enter the school. (Op-Elem, Sec)
- X 12 32 .30 Behavioral Difficulty—The individual displays behavior which prevents him or his classmates from making satisfactory educational progress. (Op-Elem, Sec)
- X 12 32.40 Mental Illness—The individual has a diagnosed mental illness of such a nature that he cannot progress satisfactorily in available educational situations. (Op-Elem, Sec)
- X 12 32.50 Mental Retardation—The individual has insufficient mental ability for successful participation in the educational program of the school.

 (Op-Elem, Sec)
- X 12 32.60 Physical Condition—The individual has a physical condition—such as a communicable disease, a rheumatic heart, or a severe crippling condition—of such a nature that it seems impossible or unwise to participate in the educational program of the school. (Op-Elem, Sec)
- X 12 32.90 Other Reason—Reasons, other than those identified under items X1232.10 to X1232.60, for which the school acts to terminate the membership of pupils or refuses to enroll them. (Op-Elem, Sec) Any such reason should be specified.

INSTRUCTION (1, 5) X 13 00 Series

X 13 10. INSTRUCTION ON A SYSTEMWIDE BASIS

In some instances, a program of studies, course, or cocurricular activity may be organized centrally

²¹ John F. Putnam and George G. Tankard, Jr., op. cit. pp. 54-56.

13 INSTRUCTION—Continued

to bring together qualified pupils from more than one school of the school system or to provide instruction from a central location through a medium such as educational television or a computer. (Rec) Examples of such instruction include a program for pupils who are gifted or talented in art, instruction in visual-motor coordination for perceptually handicapped children, a systemwide orchestra, instruction provided by the school system for home-bound children, and a special advanced placement mathematics course. To describe such situations, items of information may be drawn as appropriate from other portions of this handbook and included under this heading. Instruction provided jointly by more than one school system may be identified with designations under item X0250, Control. Instruction provided and the contract may be identified with designations under contract may be identified with designations under item X0270, Contract for Instruction or

INSTRUCTION OF SECTION (5) X 13 20.

Information may be included under this heading to describe aspects of instruction which are unique to a given section, or which might distinguish the instruction of one section from other sections of the same self-contained class, course, or cocurricular activity. (Op-All) In addition, this section should be described as appropriate by other items which pertain, in general, to all sections of the self-contained class, course, or cocurricular activity.

SUBJECT MATTER (3, 4) X 21 00 Series

Categories of information under this heading may be used for describing aspects of the subject matter of a self-contained class, course, or program of stud-

X 21 10. SUBJECT MATTER FOR SELF-CONTAINED

Categories of information under this heading may be used for describing the general subject matter of all the schoolwork of the self-contained class or portions of the schoolwork.

Content for All Schoolwork (4) X 21 11.

The general subject matter for all the schoolwork of the class, e.g., general elementary education. (Rec-Elem, AdEd) An appropriate designation should be selected from the items presented in chapters 5 and 6.

Content for Portions of Schoolwork Within Self-X 21 12.

contained Class (4)

The general subject matter for portions of the schoolwork within the self-contained class, e.g., social studies (or United States history and social studies (or United States history and United States geography), and English language arts (or reading, spelling, grammar, and composition). (Op-Elem, AdEd) For purposes of a more complete description, such designations for each portion of work may be combined with other factors such as planned instructional outcomes for pupils, pupils served, time involved, and level of difficulty. In addition to the designations for subject matter (included in chapters 5 and 6), information might be included about the major information might be included about the major resources or plans used in the instruction, e.g., a textbook and a State curriculum guide.

X 21 13. Content for Portions Outside Self-contained

> The general subject matter for portions of the schoolwork outside the self-contained class, e.g., music, physical education, and art. (Op-Elem,

AdEd) For purposes of a more complete description, such designations for each portion of work may be combined with other factors such as planned instructional outcomes for pupils, pupils served, time involved, and level of difficulty. In addition to the designations for subject matter (included in chapters 5 and 6), information might be included about the major resources or plans used in the instruction, e.g., a textbook and a State curriculum guide.

X 21 20. SUBJECT MATTER FOR COURSE (4)

Categories of information under this heading may be used for describing the general subject matter for an entire course or for portions of the course.

X 21 21. Content for Entire Course (4)

The general subject matter for the entire course, as indicated by an appropriate designation selected from the items for subject matter presented in chapters 5 and 6, e.g., modern history or chemistry. (Rec-Sec, JrC, AdEd)

X 21 22. Content for Portions of Course (4)

The general subject matter for portions of the course or for units of subject matter, as indicated by appropriate designations selected from the items for subject matter presented in chapters 5 and 6, e.g., United States history, State history, and American Government. (Op-Sec, JrC, AdEd)

X 21 24. Major Resource or Plan (4)

The major resource or plan for the course, if any, around which the entire course or a major portion is organized, e.g., a specific textbook, a State curriculum guide, a local curriculum guide, the Madison Plan, the Biological Sciences Curriculum Study, and the Physical Science Study Committee. (Rec-Sec, JrC, AdEd) Any such resource or plan should be specified.

X 21 30. CONTENT OF COCURRICULAR ACTIVITY

Categories of information under this heading may be used for describing the general content and experiences for an entire cocurricular activity or for portions of the cocurricular activity.

X 21 31.

Content for Entire Activity (4)

The general content and experiences for the entire cocurricular activity, as indicated by an appropriate designation selected from the items for cocurricular activities presented in chapters 5 and 6, e.g., intramural athletics, Future Farmers of America, and School Safety Patrol. (Rec-Sec, JrC, AdEd)

X 21 32.

Content for Portions of Activity (4)

The general instructional content for portions of the cocurricular activity as indicated by appropriate designations selected from the items for cocurricular activities presented in chapters 5 and 6, e.g., Girls Athletic Association, including activities of golf, softball, and tennis (Op-Sec, IrC, AdEd) JrC, AdEd)

X 21 34. Major Resource or Plan (4)

The major resource, plan, or manual, if any, around which the entire cocurricular activity is organized, e.g., a local, State, or national resource guide for an organization such as the Future Homemakers of America, Future Teachers of America, or Future Farmers of America. (Op-Sec, JrC, AdEd) Any such resource plan or manual should be specified.

X 21 40. SPECIALIZATION (3)

In a program of studies, any area of major or minor specialization. In addition, for an occupational program of studies, an identification may be made of each type of occupational program and of the occupational goal of the pupils.



21 SUBJECT MATTER—Continued

X 21 41. Area(s) of Major Specialization (3)

Any broad subject-matter area in which pupils may specialize by taking a specified minimum number of courses and/or by earning a specified minimum number of units of value as a part of the requirements for completion of the program of studies. (Rec-JrC, AdEd; Op-Sec) Designations for subject-matter areas are included in chapters 5 and 6. If there is no area of major specialization in the program, this fact should be indicated.

X 21 42. Area(s) of Minor Specialization (3)
Any broad subject-matter area in which pupils may specialize by taking a specified minimum number of courses and/or by earning a specified minimum number of units of value, fewer than for major specialization, as a part of the requirements for completion of the program of studies. (Rec-JrC, AdEd; Op-Sec) Designations for subject-matter areas are included in chapters 5 and 6. If there is no area of minor specialization in the program, this fact should be indicated.

X 21 43. Type of Occupational Program of Studies (3)

The general nature of any program of studies that is designed primarily to prepare pupils for immediate employment or upgrading in an occupation or cluster of occupations, e.g., an occupational training program, technical program, and program for apprenticeship training. An occupational training program or retraining program may be identified also as a vocational program or technical program. Designations for occupational goals of pupils may be included under item X2144.

X 21 43.10 Occupational Training Program—A secondary school, junior college, or adult education program of studies designed primarily to prepare pupils for entrance into a specific occupation or cluster of occupations. This includes aspects of programs such as "vocational education," "cooperative on-the-job training". (Rec-Sec, JrC, AdEd) Occupational preparation under an apprenticeship program may be identified also under item X2143.40.

X 21 43.20 Occupational Retraining Program—An adult education program of studies designed primarily to upgrade employed workers in the specific vocation in which they are currently employed, or to retrain currently employed workers or unemployed workers for a new vocation. This includes aspects of programs such as "vocational education," "cooperative on-the-job training," and, "Manpower Development and Training."

X 21 43.21 Upgrading in Current Occupation—Supplementary training for extending or updating workers' skills and knowledge in the field in which they are currently employed. (Rec-AdEd)

X 21 43.22 Retraining for New Occupation—(Rec-AdEd)
X 21 43.30 Vocational Program—As used in this handbook,
a program of studies designed primarily to
prepare pupils for work in the occupational
area between that of the unskilled employee
and that of the technician. This includes programs of training and retraining. (Rec-Sec,
JrC, AdEd)

X 21 43.40 Technical Program—A program of studies designed primarily to prepare pupils for work in the occupational area between that of the skilled employee and the professional employee such as the physician, engineer, and scientist. This includes programs of training and of retraining. (Rec-JrC, AdEd)

X 21 43.50 Apprenticeship Program—A program of studies of occupational preparation for skilled trades as

authorized by State and Federal legislation and usually conducted under the auspices of a local joint apprenticeship committee representing labor, management, and the school (Rec-Sec, AdEd)

X 21 43.90 Other Occupational Program—A type of occupational program of studies other than those identified under items X2143.10 to X2194.50. (Rec-Sec, JrC, AdEd) Any such program should be specified.

X 21 44. Occupational Goal of Pupils (3)

The occupational objective of pupils in a given occupational program of studies—as included under item X2143—may be indicated by a designation from chapters 5 and 6 of this handbook or from the Dictionary of Occupational Titles²² if and as appropriate. (Rec-Sec, AdEd) If applicable, information should be included about the type of certification or licensure awarded and the legal board or other group granting such certification or licensure.

X 21 50. COURSES OFFERED IN PROGRAM OF STUDIES (3)

In a departmentalized organization, a listing of courses offered in the program of studies, with an indication as to whether they are required or elective, their sequence, and their grade or year placement in the program. (Rec-Sec; Op-JrC, AdEd)

X 21 51. Required Courses

A listing of courses required in the program of studies, their sequence, and their grade or year placement. (Op-Sec, JrC, AdEd)

X 21 52. Elective Courses
A listing of elective courses and their grade or year placement. (Op-Sec, JrC, AdEd)

TREATMENT OF CONTENT (4) X 22 00 Series

Items of information under this heading may be used to describe the manner in which the content is treated in a self-contained class, course, or cocurricular activity, e.g., introduction to area, study in depth, and survey of area.

- X 22 00.01 Introduction to Area—Emphasis on introductory experiences and/or knowledge—and/or basic skills—in the subject-matter area. (Op-Sec, JrC, AdEd)
- X 22 00.02 Introduction to Research Methods in Area— Emphasis on introductory experiences related to the principles and methods of research associated with the subject-matter area. (Op-Sec, JrC, AdEd)
- X 22 00.03 Practice, Application, or Content Enrichment— Provision of opportunity for pupils to put to practice or extend the skills and knowledge acquired through their course work. (Op-All)
- X 22 00.04 Study in Depth—Emphasis on advanced experiences and/or knowledge in the subject-matter area. (Op-Sec, JrC, AdEd)
- X 22 00.05 Survey of Area—Emphasis on an organized overview of the most significant aspects of the subject-matter area. (Op-Sec, JrC, AdEd)
- X 22 00.99 Other Treatment—A manner of content treatment other than those included under items X2200.01 to X2200.05. (Op-Sec, JrC, AdEd)



²² U.S. Department of Labor. Dictionary of Occupational Titles (Third Edition). Washington: U.S. Government Printing Office, 1965.

PLANNED INSTRUCTIONAL OUTCOMES FOR PUPILS (3, 4, 5)

X 23 00 Series

Items of information under this heading may be used to identify general instructional outcomes for pupils for which provision is made in the instructional program, e.g., knowledge and understanding, appreciations and attitudes, skills, appropriately developed readiness, occupational competence, and improved physical fitness. These planned outcomes—reflecting anticipated growth or change in physical, intellectual, emotional, and social behavior or performance—frequently are referred to as "objectives." In specific instructional situations, it will be desirable to identify behavioral objectives sought which are more specific than the planned outcomes included under this heading.

- X 23 00.01 Acculturation—Greater capability for pupils to understand and adapt to the cultural patterns of the various groups which comprise the community. (Op-All)
- X 23 00.02 Appreciations and Attitudes—A greater awareness of the value and significance of aspects of the subject-matter area (including aesthetic appreciations), and a greater readiness to respond in a mature manner to phenomenons related to the area. (Op-All)
- X 23 00.03 Appropriate Behavior—Patterns of acting contributing to constructive interaction with the broad range of cultural groups with which the pupil may be expected to be in contact now or in the future. This includes, in a more restricted sense, those patterns of acting which are consistent with the necessary norms and standards set to govern pupil behavior in the school. (Op-All)
- X 23 00.04 Career Guidance—Greater understanding of one's educational and occupational strengths in relationship to career requirements and opportunities, which lead to the formulation of realistic plans for the immediate future and to consideration of the effects of technological change on the individual in the long-range future. (Op-Sec, JrC, AdEd)
- X 23 00.05 Citizenship Knowledge and Understanding—Increased knowledge and appreciation of one's responsibilities and rights as a member of his school, community, State, nation, and world. (Op-All)
- X 23 00.06 Cognitive Thinking—Greater skill in organizing and utilizing one's intellectual resources for arriving at the most appropriate solutions to problems. (Op-All)
- X 23 00.07 Creativity—Enhanced performance in original and self-expressive behavior. (Op-All)
- X 23 00.08 Critical Judgment—Greater ability to evaluate an idea, situation, or body of information in terms of meaningful objective and subjective criteria. (Op-All)
- X 23 00.09 Education for Leisure—Interests and skills appropriate for pupils' leisure-time activities at the present time and in the future. (Op-All)
- X 23 00.10 Experience in Service to Others—Greater familiarity with the satisfactions, rewards, and problems of providing service to others. (Op-All)
- X 23 00.11 General Development in Area—General growth and development in the knowledge, understandings, appreciations, attitudes, and skills related to the subject-matter area. (Op-All) Emphasis on certain aspects of growth and

- development may be indicated under items such as those concerning knowledge and understanding in area (item X2300.13), understanding of basic principles (item X2300.31), historical awareness and/or background (X2300.12), appreciations and attitudes (item X2300.02), and skills associated with area (item X2300.27).
- X 23 00.12 Historical Awareness and/or Background— Greater awareness of the nature, importance, and relationships of significant historical events affecting the subject-matter area. (Op-All)
- X 23 00.13 Knowledge and Understanding in Area—Greater knowledge of the significant facts, and increased comprehension of the basic ideas associated with the subject-matter area. (Op-All)
- X 23 00.14 Leadership Ability—Greater ability to serve effectively in leadership capacities in group activities. (Op-All)
- X 23 00.15 Literacy—The ability to read, write, and compute at or above the minimum level of competence needed for meeting the requirements of adult life. (Op-All)
- X 23 00.16 Mental Health Improved soundness of mental health and overall personality development. (Op-All) Emphasis on certain aspects of mental health may be indicated under items such as those concerning self-understanding (item X2300.26), personal satisfaction (item X2300.20), and rehabilitation (item X2300.23).
- X 23 00.17 Moral and Ethical Values—Greater adherence to the principles of morality and the ethics implicit in the highest American ideals. For nonpublic schools, there may be additional spiritual values sought as outcomes of instruction. (Op-All)
- X 23 00.18 Occupational Competence, Initial—The skills, understandings, and appreciations needed for successful initial entry into a specific occupation or cluster of closely related occupations. (Op-Sec, JrC, AdEd)
- X 23 00.19 Occupational Competence, Upgraded or Updated—The skills, understandings, and appreciations needed by workers already in an occupation to upgrade or update their occupational competence. (Op-AdEd)
- X 23 00.20 Personal Satisfaction—A sense of reward and pleasure resulting from involvement in an activity and/or from enjoyment of the product or results of the activity. (Op-All)
- X 23 00.21 Physical Fitness and Health—Improved soundness of physical health, muscular strength, physical endurance, kinesthetic skills, and resistance to disease. (Op-All)
- X 23 00.22 Readiness—A willingness, desire, and ability to participate in activities related to the subject-matter area, depending upon the necessary level of pupils' physical, mental, and emotional maturation. (Op-All)
- X 23 00.23 Rehabilitation—Restoration in whole or in part of the ability of a disabled individual to perform biologically, psychologically, or sociologically as one not disabled. (Op-Elem, Sec, AdEd) Items X2300.18 and X2300.19 may be used along with this item to indicate the development or restoration of occupational competence.
- X 23 00.24 Remediation—Improvement or overcoming of any particular marked deficiency not due to inferior general ability, including a deficiency in content previously taught but not learned. When referring to the teaching of skills or other aspects of content for the first time.



23 PLANNED INSTRUCTIONAL OUTCOMES FOR PUPILS—Continued

this may be referred to as "habilitation." In occupational programs this includes instruction intended to correct educational deficiencies or handicaps which might prevent pupils from benefiting from their occupational instruction. (Op-All)

X 23 00.25 Safety Consciousness—A knowledge and sense of patterns for safe living. (Op-All)

X 23 00.26 Self-understanding—Greater awareness and understanding of one's abilities, educational needs, emotions, interests, characteristic behavior patterns, ideal self, and self as perceived by others. (Op-All)

X 23 00.27 Skills Associated With Area—Greater ease and precision of physical and/or mental performance in activities related to the subjectmatter area. (Op-All)

X 23 00.28 Skills of Inquiry—Greater ease and precision in the use of an appropriate systematic approach for seeking information related to the subject-matter area, including the use of observation, experimentation, and questioning. (Op-All)

X 23 00.29 Social Adeptness—Greater ease and skill in interpersonal relationships. (Op-All)

X 23 00.30 Socialization—Increased understanding and appreciation of the customs, standards, traditions, and values of various cultural groups—including the family, the school, and other groups within the community, nation and world—and active cooperation with these groups as appropriate. (Op-All) Emphasis on certain aspects of socialization may be indicated under items such as those concerning acculturation (item X2300.01), appropriate behavior (item X2300.03), social adeptness (item X2300.29), and leadership ability (item X2300.14)

X 23 00.31 Understanding of Basic Principles—An understanding of the basic principles underlying the subject-matter area. (Op-All)

X 23 00.99 Other Planned Outcomes—General outcomes for pupils, other than those included under items X2300.01 to X2300.31, which are expected to result from the instruction. (Op-All) Any such planned outcome should be specified.

STAFF MEMBERS (4, 5) X 31 00 Series

Items of information may be included under this heading to identify and describe staff members involved in the instructional program. Items of information describing teachers and other staff members are included in Handbook IV, Staff Accounting for Local and State School Systems.²³ Team teaching arrangements may be identified by the use of item X 42 11.20 of this handbook, Team of Teachers. Cooperative arrangements between or among teachers also may be identified by the use of item X 41 10.20, Separate Subjects: Correlated Courses or Subject-Matter Areas.

X 31 10. TEACHER OR OTHER STAFF MEMBER ASSIGNED (4,5)

The name and identification number of any teacher or other staff member assigned to a course, class, section, or service should be included under this heading. (Rec-All)

23 Allan R. Lichtenberger and Richard J. Penrod., op. cit.

X 31 22. Teacher for portions of Schoolwork of Self-contained Class (4)

The nature of teacher assignments for given portions of the schoolwork of the self-contained class, e.g., the regular teacher of the self-contained class (teaching social studies), a teacher who is a specialist in a subject-matter area (teaching music, physical education or differentialized content for handicapped pupils), and both the regular teacher and a specialist (teaching art together).

X 31 22.10 Teacher of Self-contained Class—(Op-Elem)

X 31 22.20 Specialist—(Op-Elem)

X 31 22.30 Both—(Op-Elem)

X 31 22.90 Other Teacher—A teacher other than the regular teacher of the self-contained class and/or a teacher who is a subject-matter specialist. (Op-Elem) Any such teacher should be specified.

X 31 90. OTHER INFORMATION ABOUT STAFF MEMBERS

Information about staff members other than that included under items X3110 and X3122. (Op-All) Many appropriate items of information are included in Handbook IV, Staff Accounting for Local and State School Systems.²³

SERVICES SUPPORTING INSTRUCTION (1, 2)

X 32 00 Series

Items of information under this heading may be used to describe aspects of services supporting instruction which are provided centrally or within a single school. The concept of "services provided centrally" includes situations in which staff members or pupils of various schools go to a central location to receive services and/or members of a central staff go to more than one location to provide services. Among services supporting instruction are resource services for pupils, pupil personnel services, services for the instructional staff, and community services. Though more than one service may be provided at a single location by an individual staff member, as in an "instructional materials center" or by a "counselor," each of the services provided should be identified separately. Special facilities, equipment, and supplies may be identified with the use of items in the X 35 00 Series and X 36 00 Series.

X 32 10. RESOURCE SERVICES FOR PUPILS (1, 2) Items under this heading may be used to describe aspects of resource services provided for

pupils, such as school library services, audiovisual services, and provisions for textbooks. School library services for members of the instructional staff are included under item X3231. Audiovisual services for staff members are included under

item X3232.

X 32 11. School Library Services (1, 2)

School library services for pupils include activities such as selecting, acquiring, preparing, cataloging, and circulating books and other printed materials; planning the use of the library by pupils; and instructing pupils in their use of library books and materials, whether maintained separately or as a part of an instructional materials center. Included are facilities for the library materials center and its related work-study areas, related equipment and supplies, and services provided by school library personnel. (Rec-All) Among significant school library materials and services for pupils are the following:



31 STAFF MEMBERS—Continued

- X 32 11.10 Circulation Services—E.g., circulation of books and periodicals. (Op-All)
- Individual Guidance in Selection of Books and Materials²⁴—(Op-All) X 32 11.30
- X 32 11.40 Instruction in Use of Library—(Op-All)
- Reference Materials²⁴ and Services—E.g., encyclo-X 32 11.70 pedias, indexes, periodicals, newspapers. (Op-
- X 32 11.80 Selection, Acquisition, and Preparation of Materials²⁴ for use by Pupils—Including classifying, cataloging, and processing of materials. (Op-All)
- Other School Library Services—(Specify.) (Op-X 32 11.90
- X 32 12. Audiovisual Services (1, 2)

Audiovisual services for pupils include activities such as preparing, caring for, and making available to pupils instructional information through media such as films, filmstrips, transparencies, tapes, tv programs, and other similar materials, whether maintained separately or as a part of an instruc-tional materials center. Included are facilities for the audiovisual center and related work-study areas, related equipment and supplies, and services provided by audiovisual personnel. (Rec-All) Among significant audiovisual services for pupils are the following:

- X 32 12.10 Circulation Services—(Op-All)
- Individual Guidance in Selection and Use of Materials²⁴—(Op–All) X 32 12.30
- ${\it Materials}^{24} \ and \ {\it Services} \ for \ {\it Listening} \hbox{\longleftarrow} (Op\hbox{$-All$})$ X 32 12.51
- X 32 12.52 Materials²⁴ and Services for Viewing—(Op-All)
- X 32 12.60
- X 32 12.80 Selection, Acquisition, and Preparation of Materials24 for Use by Pupils-Including classifying, cataloging, and processing of materials. (Op-All)
- X 32 12.90 Other Audiovisual Services—(Specify.) (Op-All)
- X 32 13. Provisions for Textbooks (1, 2)

Included under this heading is a description of the plan by which the school or school system provides textbooks for the pupils, e.g., free loan plan, rental plan, and purchase plan. (Rec-All)

- X 32 13.10 Free Loan Plan-Textbooks, owned by the school system or State, loaned to pupils without charge. (Op-All)
- Rental Plan—Textbooks, owned by the school system, rented to pupils. (Op-All) X 32 13.20
- Purchase Plan—Textbooks made available through the school for purchase by pupils. (Op-All) X 32 13.30
- Combination of Plans—A combination of the plans identified under items X3213.10 to X3213.30, e.g., textbooks—purchased by many or most pupils—are provided on free loan to needy pupils. X 32 13.40
- Other Plan—A plan, other than those identified under items X3213.10 to X3213.30, by which X 32 13.90 the school or school system provides textbooks for pupils, e.g., the school sends lists of textbooks to private bookstores. (Op-All) Any such plan may be identified.
- X 32 14.

Provisions for Supplies (1, 2) Included under this heading is a description of the plan by which the school or school system provides supplies other than textbooks (e.g., workbooks, notebooks, pencils) for all or a portion of the pupils. (Op-All) Any such plan should be specified. X 32 19. Other Resource Services for Pupils (1, 2) Resource services for pupils other than school library services, audiovisual services, and provision for textbooks and other supplies. (Op-All) Any such service should be specified.

X 32 20. PUPIL PERSONNEL SERVICES (1, 2)

Items under this heading may be used to describe aspects of pupil personnel services of the school or school system, such as guidance services, health services, psychological services, speech pathology and audiology services, and school attendance and social work or "visiting teacher" services. services.

X 32 21. Guidance Services (1, 2)

Guidance services for pupils include activities of counseling with pupils and parents, providing consultation with other staff members on learning problems, evaluating the abilities of pupils, assisting pupils to make their own educational and career plans and choices, assisting pupils in personal and social development, providing referral assistance, and working with other staff members in planning and conducting guidance programs for pupils. Included are facilities for guidance and counseling, related equipment and supplies, and services provided by guidance and counseling personnel. (Rec-All) Among significant guidance services provided for pupils are the following: following:

- X 32 21.10 Counseling with Pupils-A process taking place when there is a relationship between one or more counselor(s) and one or more pupils as counselee(s) in which the pupil is helped to understand his educational, personal, and occupational strengths and limitations; relate his abilities emotions and aptitudes to advers his abilities, emotions, and aptitudes to educational and career opportunities; utilize his abilities in formulating realistic plans; and achieve satisfying personal and social development. (Rec-All)
- Educational Counseling—A counseling process in which the pupil is assisted in planning and preparing for his immediate and future edu-X 32 21.11 cational program. (Op-All)
- Career Counseling—A counseling process in which the pupil is assisted in utilizing his aptitudes and abilities to develop realistic career plans. (Op–Sec, JrC, AdEd) X 32 21.12
- Personal/Social Counseling—A counseling process in which the pupil is helped to examine and explore matters of personal and/or social concern. (Op–All) X 32 21.13
- Counseling with Parents—A counseling process in which parents are helped to understand their children, to understand child-parent relationships, and to assist and plan with their children and teachers more effectively. (Rec-Elem, Sec, Lag. 2004, AdEd) X 32 21.20 JrC; Op-AdEd)
- X 32 21.30 Consultant Service to Staff Members-Services provided teachers and other staff members to enhance their knowledge and understanding of pupils and their effectiveness in working with pupils. (Rec-All)
- Assistance with Individual Pupils—Services provided teachers and other staff members to assist them in their work with specific individual pupils. (Op–All) X 32 21.31
- X 32 21.32 Inservice Education on Guidance Services— Those formal activities organized for extending and broadening the knowledge, understanding, and skills of teachers and other staff members involved in aspects of the guidance services. This includes imparting information about guidance techniques and referral processes. (Op-All)



²⁴ Materials, considered to consist of equipment and supplies, may be described with items on pages 99 to 100.

SERVICES SUPPORTING INSTRUCTION -Continued

| X 32 21.33 | Program Development for Guidance Services— The planning and implementation of those activities, functions, and services in the guidance program which are considered necessary to meet the needs of pupils. (Op-All) |
|--|--|
| X 32 21.39 | Other Consultant Services—Consultant services to staff members, concerning guidance and counseling, other than those identified under items X3221.31 to X3231.33. (Op-All) Any such service should be specified. |
| X 32 21.40 | Pupil Appraisal Services—Those activities having as their purpose an assessment of pupil characteristics, which are used in administration, instruction, and guidance, and which assist the pupil in assessing his purposes and progress in career development and personality development. (Rec-All) Test records and materials used for pupil appraisal usually are included in each pupil's cumulative record. |
| X 32 21.50 | Information Services—Activities organized for the dissemination of educational, occupational, and personal-social information to help acquaint pupils with the curriculum and with educational and vocational opportunities and requirements. Such information might be provided directly to pupils through activities such as group or individual guidance, or it might be provided indirectly to pupils, being distributed first to staff members or parents. (Rec-All) |
| X 32 21.51 | Educational Information—Information, con- cerning immediate and future educational plans, provided pupils individually or in groups. (Op-All) |
| X 32 21.52 | Occupational Information—Information, con- cerning immediate and long-range occupa- tional plans, provided pupils individually or in groups. (Op–All) |
| X 32 21.53 | Personal and Social Information—Information about personal and social concerns of pupils, provided to pupils individually or in groups. (Op-All) |
| X 32 21.60 | Maintenance and Interpretation of Cumulative Records of Individual Pupils—Activities organ- ized for the compilation, maintenance, and interpretation of cumulative records of in- dividual pupils, (Rec-All) including systematic consideration of factors such as the following: |
| X 32 21.61 X 32 21.62 X 32 21.63 X 32 21.64 | Home and Family Background—(Op-All) Physical and Medical Status—(Op-All) Standardized Test Results—(Op-All) Personal and Social Development—(Op-All) |
| X 32 21.65 X 32 21.69 | School Performance—(Op-All) Other Factors—(Specify.) (Op-All) |
| X 32 21.70 | Placement Service—Activities organized to help place pupils in appropriate educational situations while they are in school, in appropriate part-time employment while they are in school, and in appropriate educational and occupational situations after they leave school, and to facilitate pupils' transition from one educational experience to another. This may include, for example, admissions counseling, referral services, assistance with records, and followup communications with employers concerning the performance of former pupils. |
| X 32 21.71 X 32 21.72 | Educational Placement Service—(Rec-Sec, JrC, AdEd) Occupational Placement Service—(Rec-Sec, |
| X 32 21.81 | JrC, AdEd) Followup and Evaluation Services—Activities |
| A 52 21.01 | organized to determine what is happening to pupils while they are in school and after they have left school (either as graduates or drop- |

have left school (either as graduates or drop-

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outs) so that the instructional program (including the guidance services) may be examined in terms of its appropriateness and its effect on the lives of pupils. (Rec-All)

X 32 21.82 Financial Aid Services-Activities intended to assist pupils in paying their educational expenses. Financial aid may take forms such as scholarships, fellowships, grants-in-aid, loans, employment, and cooperative housing. (Rec-Sec, JrC, AdEd)

Referral for Additional Guidance Services— Regularly established procedures intended to X 32 21.91 inform pupils about, and help them obtain, one or more aspects of guidance services which are not provided by the school or, in some instances, by the school system. (Rec-All)

X 32 21.99 Other Guidance Services—Guidance services other than those identified under items X3221.10 to X3221.91, e.g., guidance services associated with student activities and residence halls. (Rec-All) Any such service should be specified.

X 32 22. Health Services (1, 2) Health services include the activities of providing medical, dental, psychiatric, and nurse services. (Rec-All) Among the possible health services provided for pupils are the following:

Compilation, Maintenance, and Use of Pupil Health Records—(Op-All) Health Appraisal—Including: (Op-All) X 32 22.01

X 32 22.10

X 32 22.11 X 32 22.12 Vision Screening

Hearing Screening Periodic Physical Examinations

X 32 22.13 X 32 22.14 X 32 22.19 Tuberculosis Testing Other Screening nad Laboratory Testing Prac-tices—Exclusive of measurement of height and weight.

X 32 22.21 Nurse Services—(Op-All)

Provision of Care of Emergency Illness and Injury—(Op-All) X 32 22.22

X 32 22.30 Inservice Education on Health Services-Those formal activities organized for extending and broadening the knowledge, understanding, and skills of teachers and other staff members involved in aspects of the health services. (Op-All)

X 32 22.40 Health Counseling for Individual Pupils—(Op-

X 32 22.50 Communications to Parents about Health Problems of Pupils-Followup of school-identified deficiencies or defects, and/or a program of educa-tion or information for parents about general pupil health. (Op-Elem, Sec, JrC) Dental Services—(Op-All)

X 32 22.60

Dental Screening
Dental Care—E.g., cleaning, filling of cavities.
Other Dental Services—E.g., orthodontia. X 32 22.61 X 32 22.62 X 32 22.69

X 32 22.70 Psychiatric Services-Including the activities of the psychiatrist and psychiatric social worker. (Op-All)

X 32 22.81 Immunization Program-One or more immunizations required and/or provided. (Op-All)

X 32 22.82 Prevention and Control of Communicable Diseases -Other than through the immunization program. (Op-All)

Adjusting Programs to Health Needs of Individual Pupils—(Op-All) X 32 22.83

X 32 22.84 Promoting a Healthful School Environment-(Op-All)

X 32 22.85 Food Program for Needy Children-E.g., school breakfast program and school lunch program. (Op-Elem, Sec)

X 32 22.86 Referral for Diagnosis or Treatment-Regularly established procedures for informing pupils about, and helping them obtain, diagnosis or

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treatment not provided by the school or, in some instances by the school system. (Op-All)

X 32 22.90 Other Health Services—Health services for pupils other than those identified under items X3222.01 to X3222.86. (Op-All) Any such health service should be specified.

nearth service should be specified

X 32 23. School Psychological Services (1, 2)
School psychological services include the activities of administering psychological tests, interpreting the results of psychological tests, working with other staff members in planning school programs to meet the special needs of pupils as indicated by psychological tests, and planning and managing a program of psychological services, including psychological counseling, for the school or school system. (Rec-All) Possible psychological services provided by the school for pupils include the following:

X 32 23.10 Administering Psychological Tests—Direction and management of psychological testing, including administration of standardized tests and inventories of ability, aptitude, achievement, interests, and personality. (Op-All)

X 32 23.20 Interpreting Results of Psychological Testing—Analyzing the results of group and/or individual psychological tests in order to interpret pupils' intellectual, emotional, and social development. (Op-All)

X 32 23.30 Psychological Counseling—A process that takes place when there is a relationship between a school psychologist or other qualified person as counselor and one or more pupils as counselees in which the pupils are helped to perceive, clarify, solve, and resolve problems of adjustment, interpersonal relationships, and the like. (Op-All)

X 32 23.40 Psychotherapy—A process that takes place when there is a therapeutic relationship—between a qualified mental health professional²⁵ and one or more pupils—in which the pupils are helped to perceive, clarify, solve, and resolve emotional problems or disorders. (Op-All)

X 32 23.50 Working with Other Staff Members—Collaborating with other school staff members in planning appropriate educational programs for individuals and groups of pupils and assisting them by providing relevant data about specific pupil problems of a psychological nature. (Op-All)

X 32 23.60 Referral of Pupils for Further Clinical Diagnosis or Treatment—Sending or directing pupils to other persons or agencies for further clinical diagnosis or treatment. (Op-All)

X 32 23.90 Other Psychological Services—Psychological services other than those identified under items X3223.10 to X3223.60. (Op-All) Any such service should be specified.

X 32 24. Speech Pathology and Audiology Services (1, 2)
Speech pathology and audiology services include those activities which have as their purpose the identification, assessment, and treatment of children with impairments in speech, hearing, and language. The two service areas are interrelated. (Op-All)

X 32 24.10 Speech Pathology Services—Activities organized for the identification of children with speech and language disorders, diagnosis and appraisal of specific speech and language disorders, referral for medical or other professional attention necessary to the habilitation of speech and language disorders, provision of required speech

habilitation services, and counseling and guidance of children, parents, and teachers as appropriate to the habilitation of speech and language. (Op-All)

X 32 24.20 Audiology Services—Activities organized for the identification of children with hearing loss; determination of the range, nature, and degree of hearing function; referral for medical or other professional attention as appropriate to the habilitation of hearing; language habilitation; auditory training, speech reading (lip-reading), and speech conservation as necessary; creation and administration of programs of hearing conservation; and counseling and guidance of children, parents, and teachers as appropriate. (Op-All)

X 32 25. School Attendance and Social Work Services (1, 2)
School attendance and social work or "visiting teacher" services include those activities which have as their purpose the improvement of the attendance of pupils at school and the performance of school social work activities dealing with the problems of pupils which involve the home, school, and community. (Rec-All)

X 32 25.10 Attendance Services—Activities such as prompt identification of patterns of nonattendance, promotion of positive pupil and parental attitudes toward attendance, analysis of causes of nonattendance, early action on problems of nonattendance, and enforcement of compulsory attendance laws. (Rec-Elem, Sec) (See also Handbook IV, item 2103.01) 26

X 32 25.20 School Social Work Services—Activities such as investigating and diagnosing pupil problems arising out of the home, school, or community; casework services for the child, parent, or both; interpreting the problems of pupils for other staff members; and promoting modification of the circumstances surrounding the individual pupil which are related to his problem insofar as the resources of the family, school, and community can be effectively brought to bear upon the problem. (Rec-All) (See also Handbook IV, item 2103.02.) ²⁷

X 32 29. Other Pupil Personnel Services (1, 2)
Pupil personnel services other than those identified under items X3221 to X3225. (Rec-All) Any such service should be specified.

X 32 30. SERVICES FOR INSTRUCTIONAL STAFF (1, 2)
Items under this heading may be used to describe

aspects of services for the instructional staff which are provided for instructional staff members of the school or school system. Among these services are school library services, audiovisual services, instructional supervision services, and inservice education. School library services for pupils are included under item X3211. Audiovisual services for pupils are included under item X3212.

School Library Services (1, 2)

School library services for instructional staff members include activities such as selecting, acquiring, preparing, cataloging, and circulating books and other printed materials; planning the use of the library by teachers and other members of the instructional staff; and guiding instructional staff members in their use of library books and materials, whether maintained separately or as a part of an instructional materials center. (Rec-All)

staff members in their use of library books and materials, whether maintained separately or as a part of an instructional materials center. (Rec-All) Included are facilities for the library materials center and the related work-study areas, related equipment and supplies, and services provided by school library personnel. Among significant school

²⁶ Qualified mental health professionals usually are considered to include psychiatrists, clinical psychologists, school psychologists, psychiatric social workers, and other professional persons serving with (or under the direction of) these mental health professionals as members of teams.

Allan R. Lichtenberger and Richard J. Penrod. op cit. pp. 45-46.
 Ibid, p. 46

SERVICES SUPPORTING INSTRUCTION -Continued

library materials and services for instructional staff members are the following:

Circulation Materials28 and Services-Including X 32 31.10 materials delivery service. (Op-All)

Consultant Service to Instructional Staff-(Op-X 32 31.20

Guidance in Selection of Books and Materials²⁸— X 32 31.30 (Op-All)

Reference Materials²⁸ and Services—(Op-All) X 32 31.70

Selection, Acquisition, and Preparation of Ma-X 32 31.80 terials28 for use by Instructional Staff-Including classifying, cataloging, and processing of materials. (Op-All)

X 32 31.90 Other Library Services—(Specify.) (Op-All)

X 32 32.

Audiovisual Services (1, 2)
Audiovisual services for instructional staff members include activities such as selecting, preparing, caring for, and making available to members of the instructional staff the equipment, films, filmstrips, transparencies, tapes, TV pro-grams, and other similar materials, whether maintained separately or as a part of an instructional materials center. Included are facilities for the materials center. Thetuded are lacinties for the audiovisual center, TV studio, and related workstudy areas, related equipment and supplies, and services provided by audiovisual personnel. (Rec-All) Among significant audiovisual services for instructional staff members are the following:

Circulation Services—Including materials de-livery service. (Op-All)

Consultant Service and Inservice Education for Instructional Staff—(Op-All) X 32 32.20

Materials²⁸ and Services for Listening—(Op-All) X 32 32.51

X 32 32.52 Materials²⁸ and Services for Viewing—(Op-All)

Production Services-Including assistance in X 32 32.60 mounting pictures, preparing overhead transparencies, photo copying, preparing and duplicating tapes, and radio and television program production. (Op-All)

Selection, Acquisition, and Preparation of Materials²⁸ for Use by Instructional Staff—Including X 32 32.80 classifying, cataloging, and processing of materials. (Op-All)

X 32 32.90 Other Audiovisual Services—(Specify.) (Op-All)

Curriculum Laboratory (1, 2) X 32 33.

A curriculum laboratory is a facility where special assistance is provided to members of the instructional staff in planning and preparing for instruction. (Op-All) Among materials usually available in a curriculum laboratory for reference and use are representative textbooks, curriculum guides, tests, and selected audiovisual equipment and supplies.

X 32 34. Other Resource Services (1, 2)

Resource services—other than school library services, audiovisual services, and a curriculum laboratory—by which materials and supplies are made available or are provided for members of the instructional staff. (Op-All) Any such resource service should be specified.

X 32 35.

Instructional Supervision Services (1, 2)
Instructional supervision services of the school or school system include the activities by which central administrative personnel, principals, and/or supervisory personnel provide personal leadership, guidance, and expertness to members of the instructional staff for the purpose of imof the instructional staff for the purpose of im-proving instruction. (Op-All) Among services

provided for individuals or groups are assistance with planning, assistance in understanding pupils, assistance with development of skills and/or techniques of instruction, assistance with research activities, and direction of inservice education activities.

X 32 35.10 Assistance with Planning—(Op-All)

X 32 35.20 Assistance in Understanding Pupils—(Op-All)

Assistance with Development of Skills and/or X 32 35.30 Techniques of Instruction—(Op-All)

Assistance with Evaluation—(Op-All) X 32 35.40

X 32 35.50Assistance with Research Activity—(Op-All)

X 32 35.60 Direction of Inservice Education Activity—(Op-All) Inservice education activities are identified under item X3236.

X 32 35.90 Other Supervision Services-Instructional supervision services other than those identified under items X3235.10 to X3235.60 (Op-All) Any such service should be identified.

X 32 36. Provisions for Inservice Education (1, 2) Inservice education for the instructional staff includes systematized activities promoted, directed, or approved by a school system or school that contribute to the professional or occupational growth and competence of members of the instructional staff during the time of their service to the school system or school. (Op-All) Among these activities are workshops, demonstrations, school visits, courses for college credit, sabbatical leaves, and travel leaves.

X 32 36.01 Workshop-An inservice education activity, with or without a set program, providing opportunity for teachers, supervisors, administrators and, sometimes, consultants to explore together various problems in curriculum and instruction. (Op-All) Frequently workshops include sessions for planning, working, summarizing, and evaluating.

Institute—An arrangement for lectures and discussion sessions on a limited subject or X 32 36.02 theme, usually more intensive than a conference but less elaborate than a workshop. (Op-All)

X 32 36.03 Conference-A meeting of a group of teachers, and/or administrators, often with a consultant specialist from outside the school system, to consider a predetermined subject related to the curriculum and instruction of the school system. (Op-All) When there is a maximum of individual participation in the exchange of ideas, such an activity might be referred to as a "seminar."

X 32 36.04 Lecture—An activity in which a member of the staff or a consultant gives an oral presentation of facts or principles related to curriculum and instruction. (Op-All) A lecture may or may not be followed by a period for questioning or

X 32 36.05 Demonstration-An activity in which one or more persons, in the role of a teacher, work with a group of pupils in the presence of other staff members to show the others how to use certain methods or techniques of instruction. (Op-All)

Staff Meetings—Meetings of the principal, teachers, other members of the instructional staff, and others to consider problems related to curriculum and instruction. (Op-All) X 32 36.06

X 32 36.07 Committee Project-An activity carried on over a period of time by a group of teachers, supervisors, and/or administrators to investigate in depth and develop solutions for a signifi-cant problem related to curriculum and instruction. (Op-All)

X 32 36.08 Group Study Activity-An activity carried on over a period of time by a group of teachers,

²⁸ Materials, considered to consist of equipment and supplies, may be described with items on pp. 99 to 100.

32 SERVICES SUPPORTING INSTRUCTION —Continued

supervisors, and/or administrators to develop greater knowledge, understanding, and insights into particular problems related to curriculum and instruction; to develop a possible solution to the problems; and to implement and test the solutions. (Op–All)

X 32 36.09 Helping-teacher Services—An activity of one or more professional staff members directed primarily toward assisting various teachers in their classrooms to improve their teaching techniques. (Op-Elem, Sec)

X 32 36.10 Television Program for Inservice Education—An activity whereby television programs concerning some phase of inservice education are developed at a central location and transmitted by television to teachers in their various schools, usually prior to or following the usual period of daily instruction. (Op-Elem, Sec) If such an activity constitutes a course for college credit, it should be included under item X3236.13.

X 32 36.11 School Visit—An activity in which a teacher visits another school either on an informal basis or through a formally arranged plan to observe teaching methods and to discuss various aspects of instruction. (Op-Elem, Sec)

X 32 36.12 Payment of Expenses to Professional Meetings
—Expenses paid (in full or in part) by the
school system for attendance at workshops,
institutes, conferences, and/or lectures not
provided by the school system. (Op-All)

X 32 36.13 College Course—Instruction provided by a college or university in cooperation with the school system, so that college credit or credit toward a salary increment is awarded for the satisfactory completion of the work. (Op-All)

X 32 36.14 Payment of Tuition—Payment of college tuition and, possibly, other expenses for preparation resulting in certification or strengthening in an area of need to the school system. (Op-All)

X 32 36.15 Sabbatical Leave—A leave of absence with full or partial remuneration, following a designated number of consecutive years of service, providing members of the instructional staff with opportunity for self-improvement through activities such as graduate study, occupational experience or training, travel, writing, and recuperation. (Op-All)

writing, and recuperation. (Op-All)

X 32 36.16 Leave Without Pay—A leave of absence without remuneration. (Op-All)

X 32 36.90 Other Provisions for Inservice Education— Provisions for inservice education, other than those identified under items X3236.01 to X3236.16, which are provided for staff members of the school or school system, e.g., provisions for independent study. (Op-All) Any such provision should be specified.

X 32 39. Other Services for Instructional Staff (1, 2)
Services other than those identified under items
X3231 to X3236 which are provided for members
of the instructional staff e.g., health services, and
services of nonprofessional and nonteaching staff
members such as educational secretaries and
teacher aides who assist with correspondence,
recordkeeping, duplicating instructional materials,
and other routine administrative activities.
(Rec-All) Any such service should be specified.

X 32 40. RESEARCH AND STATISTICAL SERVICES (1, 2)

Items under this heading may be used to describe aspects of the research and statistical services of the school system or school. (Op-All)

X 32 40.10 Research Services—Activities organized to promote, facilitate, and conduct applied and/or basic research. (Op-All) Statistical services, which frequently support various research activities, are identified in item X3240.30; data processing services supporting research and statistical services are included in item X3250.

X 32 40.11

Applied Research—The type of research activity concerned with specific problems for which immediately applicable findings are sought. (Op-All) This activity may represent the application of knowledge derived from basic research or may involve testing alternative practices in the school system, school, or classroom. When brought to bear on problems of curriculum and instruction, this type of research is conducted to solve immediate practical problems related to the content, resources, and/or processes of instruction and learning. For administration and management, applied research might be used to help solve problems such as those associated with coordinated purchasing and warehousing, space utilization, maintenance schedules, transportation routes, and useful life of equipment.

X 32 40.12 Basic Research—The type of research activity, primarily directed to the development and evaluation of theory, in which immediate applicability of findings is not a major concern. (Op-All) This type of research activity is primarily concerned with the discovery of new knowledge.

X 32 40.20 Evaluation Services—Activities organized to assist staff members in planning for the evaluation of school practices with the purpose of improving the quality of such practices. (Op—All) Included are activities designed to plan for advancing the state of the art of evaluation, e.g., the development of models and instruments for evaluation purposes.

X 32 40.30 Statistical Services—Activities organized to assist staff members in the process of collecting, organizing, analyzing, and disseminating information about the educational system for purposes of comparison, determination of current status, and projection. (Op-All) This involves summarizing and analyzing information or data by hand methods, unit record equipment, electronic computers, and other means.

X 32 40.40 Coordination of Information about Individual Schools—Activities organized to assist the various schools of the system in collecting uniform information with accuracy; to gather information from the schools at a central location for processing, storage, and retrieval; to develop school and school system norms for standardized tests; and to transmit relevant processed information back to the various schools. (Op-All)

X 32 40.90 Other Research and Statistical Services—Research and statistical services, other than those identified under items X3240.10 to X3240.40, which are provided by the school or school system. (Op-All) Any such service should be specified.

X 32 50. DATA PROCESSING SERVICES (1, 2)

Activities organized to assist staff members through the systematic collecting, processing, and reporting of various kinds of educational information. (Op-All) These services include the utilization of data processing techniques and its related processes to facilitate a data system of information collection, storage, and retrieval. They provide a means for relieving staff members of routine duties, and they provide management with information on which to base administrative



SERVICES SUPPORTING INSTRUCTION -Continued

decisions. These services also stimulate and provide data basic to the ongoing processes of research and analysis (see also item X3240). Among data processing services are the following:

Attendance Accounting—(Op-All) X 32 50.01 Attendance Accounting—(Op-All)
Class Scheduling—(Op-All)
Preparing Class Lists—(Op-All)
Preparing Report Cards—(Op-All)
Test Scoring and Reporting—(Op-All)
Other Data Processing Services—E.g., master scheduling, class ranking, and preparation of X 32 50.02 X 32 50.03 X 32 50.04

X 32 50.09 mailing lists. (Op-All) Any such service should be specified.

X 32 60. INFORMATION SERVICES (1, 2)

Activities organized to inform the public about the condition and progress of education in the school or school system, utilizing personal presentation, publications, the press, radio, television, and other channels of communication. (Op-All)

COMMUNITY SERVICES (1, 2) X 32 70.

Items under this heading may be used to describe activities outside the usual elementary, secondary, college, and adult education programs which the school or school system provides on a continuing basis for the needs of the community as a whole or for some segment of the community. (Rec-All) Among services provided for the community are the following:

After School Activities for Pupils—E.g., extended day activities for pupils with working mothers, and organized playground activities. X 32 70.01 (Op-Elem, Sec)

Civic Activities-E.g., lectures, concerts, exhibi-X 32 70.02 tions, and seminars. (Op-All)

X 32 70.03 Community Recreation Programs—(Op-All)

X 32 70.04 Community Welfare Activities—(Op-All)

Facilities Designed for Community Use as well as for School Use—(Op-All) X 32 70.05

Facilities Available for Community Use-(Op-X 32 70.06

 $\begin{array}{ll} \textit{Identification of the Community Needs and} \\ \textit{Interests} — (Op-All) \end{array}$ X 32 70.07

X 32 70.08 Library Service to Public—(Op-All)

Programs of Education in Custodial and Detention X 32 70.09 Care—(Op-Elem, Sec)

Services for Nonpublic School Pupils—On a continuing basis. (Op-All) Where such services are provided they should be identified through the use of items from various portions of this X 32 70.10 handbook as appropriate.

Tutoring and Homework Help Program—E.g., after school tutoring and homework assistance X 32 70.11 to pupils of one or more schools, in a given school or at separate study continued.

Coordination with Community Agencies—The manner in which activities of the school system are coordinated with the activities of X 32 70.20 community agencies providing services related to the following: (Op-All)

The Courts of Law-(Op-All) X 32 70.21

X 32 70.22 Employment Agencies—(Op-Sec, JrC, AdEd) X 32 70.23

Health and Welfare Agencies—Including activities of any formal health council and any agency providing guidance services. (Op-All)

Recreation Agencies—Including agencies dealing with the fine arts. (Op-All) X 32 70.24

Other Community Agencies—(Specify.) (Op-X 32 70.29

X 32 70.90 Other Community Services—(Specify.) (Op-All)

X 32 81. FOOD SERVICES (1, 2)
Food services include those activities which have as their purpose the management of the food services program the school or school system and the preparation and serving of regular and incidental meals, lunches, or snacks in connection with school activities. (Op-All) Included are facilities for the cafeteria and any other food preparation area; related equipment and supplies (including vending machines); and services provided by food services personnel.

X 32 81.10 Regular Meals-Including breakfast and lunch. (Op-All)

X 32 81.20 Incidental Meals and/or Snacks-E.g., milk in the middle of the morning. (Op-All)

X 32 81.90 Other Food Services—(Specify.) (Op-All)

X 32 82. PUPIL TRANSPORTATION SERVICES (1, 2) PUPIL TRANSPORTATION SERVICES (1, 2)
Pupil transportation services include those activities which have as their purpose the conveyance of pupils to and from school activities, either between home and school or on trips related to school activities. (Op-All) If a school system provides transportation services only for special groups of pupils—e.g., pupils with physical handicaps, or pupils transported to a vocational school in a neighboring school district—these special groups should be identified. If transportation services are provided, it may be desirable tion services are provided, it may be desirable to indicate whether or not there is a cost to the pupils involved. Among pupil transportation services are the following:

X 32 82.10 Transportation between Home and School—(Op-

X 32 82.20 Field Trips Related to School Activities—(Op-All) X 32 82.90 Other Pupil Transportation Services-E.g., transportation between local school districts. (Op-

X 32 90. **OTHER** SERVICES SUPPORTING IN-

STRUCTION (1, 2)

Services supporting instruction, other than those identified under items X3210 and X3282, which are provided by the school or school system, e.g., a clothing center for needy pupils. (Op-All) Any such service should be specified.

All) Any such service should be specified.

COMMUNITY RESOURCES (1, 2) X 33 00 Series

Information about outstanding or significant community resources which are available to a school or school system may be included under this heading. (Op-All) These resources include the facilities, agencies, businesses, and persons in the community outside the schools that may be, or are, used by the schools for their educative values, e.g., theaters, parks, playgrounds, libraries, art galleries, museums, zoos, planetariums, botanic gardens, universities, churches, scouts and other youth groups, service clubs, social-service agencies, industries, and individuals, including representatives of various occupational groups, cultural groups, and civic organizations.

LOCATION OF INSTRUCTION (OR SERVICE) (2, 3, 4, 5)X 34 00 Series

Items of information under this heading may be used to describe the location and nature of the facility or facilities used for instruction and for



services supporting instruction—e.g., a school facility, a hospital, and the home of a pupil—and to identify the location of the room or other teaching space into which a section is scheduled. If appropriate, identification may be made of those classes considered as "extension classes," and of locations used for outdoor education. Any special or unique built-in equipment should be identifiable with the teaching space.

School Facility or Facilities—One or more X 34 10.10 buildings or sites belonging to or used by a school or school system for school purposes. In identifying a section, the room number or other teaching space designation should be given.

Location in Given School—Identification of the room or other teaching space, when the section is scheduled into the facilities of the given school. (Rec-All) The room number or X 34 10.11 other teaching space designation should be given.

Location in Other School in Same School System—The room or teaching space, in another school of the same school system, X 34 10.12 into which the section is scheduled. (Rec-All)

X 34 10.13 Location in School in Another School System-The room or teaching space, in a school of another school system, into which the section is scheduled. (Rec-All)

Home of Pupil-The home or residence of a X 34 10.20 pupil. (Rec-All) For local use in designating a section, the specific home or residence should be identified.

Hospital-A building or site belonging to or X 34 10.30 used by a hospital, sanatorium, or convalescent home. (Rec-All) For identifying a section, the specific institution and room number or other space designation should be given.

Business, Commercial, or Industrial Facility-A X 34 10.40 building or site belonging to a business, commercial, industrial, or similar organization. (Rec-All) Any such facility and the organization to which it belongs should be identified.

Other Nonschool Location—A location other than those included under items X3410.10 to X 34 10.90 X3410.40, e.g., a building or site belonging to or used by a service organization or public noneducational agency. (Rec-All) Any such facility and the agency to which it belongs should be identified.

FACILITIES (2, 4, 5)X 35 00 Series

A facility is a piece of land, a building site, a building, or a part of a building. Items of information under this heading may be used to describe school sites and buildings and the portions of these sites and buildings utilized as instructional space.29

X 35 10. FACILITIES OF SCHOOL (2)

The quantity and description of buildings and sites belonging to or used by a school for instruc-tion and services supporting instruction. (Op-All) Items of information appropriate for describing school facilities—that is, the sites and buildings, including built-in equipment—are included in

Handbook III, Property Accounting for Local and State School Systems.30

INSTRUCTIONAL SPACE FOR SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY (4,5) X 35 20.

The nature of the instructional space planned, available, or utilized for a self-contained class, course or cocurricular activity, e.g., regular classroom (permanent walls), laboratory room, shop room, and gymnasium. In addition, it may be desirable to specify (a) the subject-matter area, purpose, or activity for which the space is designed or appropriate, (b) the number of pupil stations,³¹ and (c) the area in square feet for each instructional space, including any storage and stations, and (c) the area in square feet for each instructional space, including any storage and other service areas opening into and serving as adjuncts to this particular space. Space utilized for purposes other than instruction in self-contained classes, courses, or cocurricular activities may be described with items from Handbook III.²²

X 35 20.10 Regular Instructional Spaces — Instructional spaces designed, or adapted, in such a manner that they can be used to house any class that does not require special built-in equipment tailored to its specific needs. (Op-All)

X 35 20.11 Regular Classroom (Permanent Walls)—An instructional space-having permanent walls —which is designed, or adapted, in such a manner that it can be used to house any class that does not require special built-in equipment tailored to its specific needs. (Op-All)

X 35 20.12 Regular Classroom (Movable Partitions)—An instructional space-having, as one or more walls, partitions which can be moved without requiring special skill to include the room in a larger instructional space—which is designed, or adapted, in such a manner that it can be used to house any class that does not require special built-in equipment tailored to its specific needs. (Op-All)

X 35 20.13 Large Group Instructional Space—An instructional space considerably larger than the usual classroom which may be used for instructing more pupils than are in the usual group. Should this space be composed of two or more regular classrooms having movable partitions, information to number of class-rooms or spaces should be included under item X3520.12. (Op-All)

Small Group Instructional Space—An instruc-X 35 20.14 tional space considerably smaller than the usual classroom which is designed or adapted for instructing fewer pupils than are in the usual group, e.g., a room used for seminars. (Op-All)

X 35 20.20 Special Instructional Spaces — Instructional spaces designed, or provided with special built-in equipment, for specialized learning activities, e.g., kindergarten rooms, laboratories, and shops. (Op-All)

X 35 20.21 Kindergarten Room-A special instructional space designed, or provided with special built-in equipment, for use by a group or class that is organized to provide educational experiences for children for the year or years preceding the first grade. (Op-Élem)

X 35 20.22 Laboratory Room—A special instructional space designed, or provided with special built-in equipment, for pupil participation in learning activities involving scientific or

²⁹ With reference to the permanency or movability of instructional facilities see glossary items for Permanent Building, Portable Building, and Mobile Classroom.

 ³⁰ Paul L. Reason and George G. Tankard, Jr., op. cit.
 ³¹ A pupil station is defined as a specific accommodation for one pupil in an instructional space. A pupil station may be, for example, a seat in a classroom or a space in a laboratory.
 ³² Paul L. Reason and George G. Tankard, Jr., op. cit.

35 FACILITIES—Continued

applied experimentation, e.g., a laboratory in one of the sciences, mathematics, languages, driver education, or practical or performing arts. (Op-All)

X 35 20.23 Shop Room—A special instructional space designed or provided with special built-in equipment, for developing manipulative and related skills. (Op-All) The type of shop room should be specified.

X 35 20.24

Home Economics Room—A special instructional space designed, or provided with special built-in equipment, for learning activities involving the varied aspects of food, clothing, and shelter, with particular emphasis on consumer education; management of money, time, energy, and human resources; and human relationships focused on child growth and development, family relationships, and family health. (Op-All)

Music Room—A special instructional space designed, or provided with special built-in equipment, for learning activities involving choral and instrumental music. (Op-All) The areas of practice rooms, robe rooms, music library rooms, and instrument storage rooms serving as adjuncts to music rooms for the school but are not counted directly under this general heading as individual music rooms; if counted, they should be treated as separate subitems under this general heading.

X 35 20.26 Special Instructional Space for Exceptional Children—An instructional space designed, or provided with special built-in equipment, specifically for accommodating classes organized for the particular purpose of providing instruction to exceptional children, e.g., classrooms for pupils who are visually handicapped, hearing handicapped, or crippled. (Op-Elem, Sec, AdEd) Types of pupils served are identified under item X0960 and should be specified.

X 35 20.29

Other Special Instructional Space—An instructional space designed, or provided with special built-in equipment, for some specific type of learning activity not included under items X3520.21 to X3520.26, e.g., a planetarium, or an instructional space having special built-in equipment for art, business education, or distributive education. (Op-All) Any such special instructional space should be specified.

X 35 20.30 Other Instructional Spaces—Instructional spaces that have been specifically designed, or adapted, to accommodate instructional activities somewhat different from those of the usual classroom or laboratory situation, e.g., libraries, study halls, separate audiovisual areas, research laboratories (not classroom laboratories), museums, auditoriums, gymnasiums, and multipurpose rooms. (Op-All)

X 35 20.31

School Library—An instructional space designed, or adapted, as a place for study and reading, and for the custody, circulation, and administration of a collection of books, manuscripts, and periodicals kept for the use of the student body and school staff, but not for sale. (Op-All) Study carrels, audiovisual, storage, and other service areas opening into, and serving as adjuncts to, a particular library are considered parts of the library area. When school library services and audiovisual services are located in the same instructional space, this space frequently is

referred to as an "instructional materials center." Audiovisual areas which do not open into, and are not adjuncts of, the library are recorded under item X3520.33, Audiovisual Room.

X 35 20.32

X 35 20.33

X 35 20.34

X 35 20.35

X 35 20.36

X 35 20.38

Study Hall—An instructional space designed, or adapted, for housing one or more pupils engaged in individual study of an informal nature of the lessons or assignments received in their self-contained classes or courses, including any study carrels which open into a study hall. (Op-All) A study carrel is considered to be a part of the room into which it opens and which it serves, e.g., a study hall, library, regular instructional space, or laboratory (see also item X3520.41).

Audiovisual Room—An instructional space designed, or provided with special built-in equipment, for audiovisual material storage, screening, and listening that is separate from the school library and does not serve as an adjunct to another room or area. (Op-All) An audiovisual area opening into and serving as an adjunct to a library is considered part of the library space under item X3520.31; activities carried on in such an area may be described with designations from under items X3212 and X3232, Audiovisual Services.

Auditorium—An instructional space designed and constructed with a built-in stage, and sloping floor or fixed seating, for use as an assembly center. (Op-All) Any similar area utilized for large group instruction should be included under this heading and identified separately. A "little theatre" for instruction and other activities in areas such as dramatics and forensics should not be included here, but should be included under item X3520.22 Laboratory Room.

Gymnasium—An indoor instructional space designed, or adapted, specifically for most physical education activities. (Op-All) Regular or special instructional spaces used in connection with the gymnasium are recorded individually as regular or special instructional spaces and not as part of the gymnasium. Special instructional spaces for swimming and for outdoor physical education are included under items X3520.89 and X3520.99. Gymnatorium—An instructional space designed, or adapted, specifically for the combined functions that might normally be served by a separate gymnasium and a separate auditorium. (Op-All) See also definitions of auditorium under item X3520.34 and gymnasium under item X3520.35.

X 35 20.37 Cafetorium—An instructional space designed, or adapted, specifically for the combined functions that might normally be served by a separate cafeteria and a separate auditorium. (Op-All) See also definitions of auditorium under item X3520.34 and cafeteria in the glossary.

Multipurpose Room—An instructional space designed, or adapted, specifically for two or more of the combined functions that might normally be served by a separate library, separate audiovisual room, separate auditorium, separate gymnasium, separate gymnatorium, separate cafetorium, or separate cafeteria, such as assemblies, physical education, lunch, music, clubs, audiovisual work, and library services. (Op-All) Separate gymnatoriums and cafetoriums are not classified as multipurpose rooms. See also definitions under items X3520.31, X3520.32, X3520.33, X3520.34, X3520.35, X3520.36,

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35 FACILITIES—Continued

X3520.37, and the definition of cafeteria or lunchroom in the glossary.

X 35 20.41 Study Carrel-A small enclosure or alcove designed for individual study, reading, viewing, or listening. (Op-All) A study carrel is considered to be a part of the room or space into which it opens and which it serves, e.g., a study hall, library, regular classroom, or laboratory. In addition, it may be separately identified as a study carrel.

X 35 20.89 Miscellaneous Indoor Instructional Space—Any instructional space in a building that is not classifiable under items X3520.10 through X3520.38, such as a research laboratory (not classifiable under item X3520.22), bowling alley, indoor swimming pool, indoor rifle range, museum, planetarium, and television produc-tion studio. (Op-All) The type of instructional space should be specified.

X 35 20.99 Miscellaneous Outdoor Instructional Space-Any outdoor instructional space such as an outdoor physical education area, multiple-car range, outdoor swimming pool, outdoor play area, school camp, and garden. (Op-All) The type of instructional space should be specified.

INSTRUCTIONAL EQUIPMENT AND **SUPPLIES** (3, 4, 5) X 36 00 Series

Items of information under this heading may be used to identify general types of equipment (builtin or movable) and supplies utilized in instruction, e.g., types of reading materials, visual equipment and supplies, audio equipment and supplies, audio-visual equipment and supplies, and equipment and supplies for a specific activity. If desired, additional information may be included under each heading to indicate types, manufacturers, model numbers, quantities and other pertinent details as appropriate. For accounting purposes, it may be desirable to differentiate among those materials which are classified as built-in equipment,³³ movable equipment,³⁴ and supplies³⁵ (See also Handbook III³⁶).

X 36 10. READING MATERIALS (4)

Written or printed matter intended to be read for purposes such as developing or improving reading skills, gathering information, and leisure, e.g., periodicals, reference books, textbooks, workbooks, and written programmed materials. This includes materials written in braille for blind pupils.

X 36 10.10 Books—Other than textbooks, reference books, and workbooks. (Op-All)

Microforms-E.g., microfilms, microfiche, micro-X 36 10.20 cards, and any other photographically reduced materials which must be read with the help of enlarging instruments. (Op-All)

Newspapers—(Op-All) X 36 10.31

Pamphlets and Documents—(Op-All) X 36 10.32

X 36 10.40 Periodicals—(Op-All)

38 Built-in Equipment—Equipment that is an integral part of the building or grounds and permanently attached thereto.
34 Movable Equipment—Equipment that is transportable from one location to another, without appreciable damage or change to the location from which it is removed or to the location where it is installed.
35 Supply—A material item of an expendable nature that is consumed, worn out, or deteriorated in use; or one that loses its identity through fabrication or incorporation into a different or more complex unit or substance.
36 Paul L. Reason and George G. Tankard, Jr., op. cit. pp. 98-100.

Reference Books—Books designed by arrangement and treatment to be consulted for definite items of information rather than to be read consecutively, e.g., dictionaries, encyclopedias, bibliographies, and indexes. (Op-All) X 36 10.50

Study Guides-Written, printed, or duplicated directions or questions used by pupils in inde-X 36 10.60 pendent study. (Op-All)

Textbooks—Other than programmed texts, which should be included under item X3610.82. X 36 10.70 (Op-All)

X 36 10.81 Workbooks-Other than programmed workbooks, which should be included under item X3610.82. (Op-All)

Written Programmed Materials—Other than textbooks and workbooks. (Op-All) X 36 10.82

X 36 10.90 Other Reading Materials—(Op-All)

X 36 20. VISUAL EQUIPMENT AND SUPPLIES (4) Devices and related supplies—other than reading materials (see item X3610) and exclusive of audiovisual materials (see item X3640)—by means of which learning is enhanced through the sense of sight, e.g., chalkboards, filmstrips, globes, overhead projectors, and picture sets.

Cameras-Including still and motion picture X 36 20.10 cameras and microform cameras. (Op-All)

X 36 20.21

Display Boards and Display Cases—Including flannel board, feltboard, magnetic board, tack-X 36 20.22 board, and hook and loop. (Op-All)

X 36 20.31 Filmstrips and/or Slides—Including projectors, filmstrips, and slides. (Op-All) Any such equipment and supplies used only in conjunction with recordings on records or magnetic tape should be included under item X3640, Audiovisual Equipment and Supplies.

X 36 20.41 Globes—(Op-All)

X 36 20.42

Motion Pictures (Silent)—Including films, viewers, and projectors used only for silent motion pictures. (Op-All) X 36 20.50

Opaque Projectors—(Op-All) X 36 20.61

X 36 20.62 Overhead Projectors-Including related transparencies and overlays. (Op-All)

Picture Sets and Study Prints-Including X 36 20.70 mounted and unmounted pictures. (Op-All)

X 36 20.81 $Projection \ Screens -- ({\bf Op-All})$

Readers and Reader-Printers for Microforms— E.g., for microfilm, microfiche, and/or micro-X 36 20.82 cards. (Op-All)

X 36 20.83 Transparency Maker—(Op-All)

X 36 20.90 Other Visual Equipment and Supplies-Including experience charts and flash cards. (Op-All) Any such equipment or supply may be specified.

X 36 30. AUDIO EQUIPMENT AND SUPPLIES (4)

Devices and related supplies—exclusive of audiovisual materials (see item X3640)—by means of which learning is enhanced through the sense of hearing, e.g., a radio, record player, and tape recorder.

X 36 30.10 Closed Circuit Audio Equipment-E.g., telephones, lines, cables, and other devices and equipment making audio materials available from a central repository. (Op-All)

Dictating Machines—Including accompanying tapes, discs, or cylinders. (Op-All) X 36 30.20

X 36 30.30 Radios—(Op-All)

X 36 30.40 Record Players-Including accompanying discs. (Op-All)

X 36 30.50 Tape Recorders-Including accompanying recording tape. (Op-All)

36 INSTRUCTIONAL EQUIPMENT AND SUPPLIES—Continued

- X 36 30.60 Telelecture Equipment—Including provisions for one- or two-way communication with amplification. (Op-All) This sometimes is combined with a visual reproduction device.
- X 36 30.90 Other Audio Equipment and Supplies—Including listening tables and headphones. (Op-All)
- X 36 40. AUDIOVISUAL EQUIPMENT AND SUPPLIES (4)

Optical, electronic, and other devices—and related supplies—by means of which learning is enhanced through the combined senses of hearing and sight, e.g., sound motion pictures and television. Frequently, two or more of these components are combined into electronic distribution systems, some of which incorporate remote or dial access capabilities.

- X 36 40.10 Closed Circuit Audio and Video Equipment—E.g., telephones, lines, cables, and other devices and equipment making audiovisual materials available from a central repository. (Op-All)
- X 36 40.20 Filmstrips or Slides with Sound E.g., sound tapes or records accompanying filmstrips or slides. (Op-All)
- X 36 40.30 Motion Pictures (Sound)—Including projectors and films. (Op-All)
- X 36 40.40 Television Cameras—Including related studio equipment. (C) All
- X 36 40.50 Television Recently Sets -(Op-All)
- X 36 40.60 *Video Tape Recorder* Including video tapes. (Op-All)
- X 36 40.90 Other Audiovisual Equipment and Supplies— E.g., multimedia kits, pupil-response equipment, certain devices for programmed instruction, and devices for remote or dial access to electronic distribution systems. (Op-All)
- X 36 50. THREE-DIMENSIONAL AND MANIPULA-TIVE EQUIPMENT AND SUPPLIES (4)

Equipment and supplies by means of which learning is enhanced through the sense of touch, e.g., objects, models, and specimens, including raised relief maps and manipulative aids used in arithmetic. (Op-All)

X 36 60. EQUIPMENT AND SUPPLIES FOR SPE-CIFIC TYPE OF ACTIVITY (3, 4, 5)

Equipment and related supplies which are provided for instruction in a specific type of instructional activity and which are not classifiable elsewhere.

- X 36 60.10 Art Equipment and Supplies E.g., petter's wheels, kilns, easels, brushes, paints, paper, and other equipment and supplies for activities such as metalworking, weaving, drawing, painting, photographing, printing, modeling, forming, earving, and constructing. (Op-All)
- X 36 60.20 Business Equipment and Supplies—E.g., typewriters, calculating machines, keypunch machines, and sorting machines. (Op-All)
- X 36 60.30 Driver Education and Equipment and Supplies— E.g., automobiles, and automobile and traffic simulators. (Op-All)
- X 36 60 40 Homemaking Equipment and Supplies—E.g., ranges, household tools and intensils, sewing machines, pressing and ironing equipment, and textile fabrics. (Op-All)
- X 36 60.50 Industrial Equipment and Supplies—E.g., welding apparatus, powersaws, lathes, and hand-tools. (Op-All)
- X 36 60.60 Music Equipment and Supplies—E.g., pianos, instruments, storage cabinets, and staff liners. (Op-All)

- X 36 60.70 Physical Education Equipment and Supplies— E.g., game equipment, gymnastics equipment, towels, soap, and equipment for physical rehabilitation. (Op-All)
- X 36 60.80 Scientific Laboratory Equipment and Supplies— E.g., utility outlets, bunsen burners, chemicals, microscopes, and balances. (Op-All)
- X 36 60.90 Equipment and Supplies for Other Specific Type of Activity—E.g., stage and stage equipment. (Op-All) Any such equipment or supply may be specified.
- X 36 70. FURNITURE AND FURNISHINGS (4)

 Movable articles used in furnishing classrooms and other instruction areas, e.g., desks, chairs, tables, cots, book shelves, file cabinets, wheelchairs, rugs, and light control drapes, blinds, and shades. (Op-All)
- X 36 90. OTHER INSTRUCTIONAL EQUIPMENT AND SUPPLIES (4)

 General types of equipment and supplies other than those included under items X3610.10 to X3670. e.g., electronic computers and related software. (Op-All) Any such type of equipment or supply may be specified.

STRUCTURE OF PROGRAM OF STUDIES OR COURSE (2, 3)

X 41 00 Series

The manner in which the content of the program of studies or course is structured, e.g., separate subjects, broad fields, integrated, and core units.

- X 41 10.10 Separate Subjects: Discrete Course(s) or Subject-Matter Area(s)—A structure in which each subject-matter area or segment is taught as an entity. (Op-Elem, Sec)
- X 11 10.20 Separate Subjects: Correlated Courses or Subject-Matter Areas—A structure in which two or more subject-matter areas or segments, taught during the same school term to many of the same pupils, are articulated in such a manner that the relationships of the subject-matter areas are made a part of the instruction without destroving the identity of the respective subject-matter areas. (Op-Elem, Sec) Any course or section with which a given course or section is correlated may be specified.
- X 41 10.30 Broad Fields—A structure in which closely related subject matter is combined (or fused) into a broad subject-matter area, e.g., history, geography, economics, sociology, and government combined into social studies; arithmetic, geometry, and algebra combined into general mathematics. This plan sometimes is referred to as "fusion." (Op-Elem, Sec)
- X 41 10.40 Integrated—A structure in which subject-matter area boundaries are flexible, with all offerings of a class being taught in relation to broad areas of study and in relation to one another as mutually associated in some genuine relationship. (Op-Elem, Sec)
- X 41 10.50 Core Units—A structure in which a sequence of central problems or units growing out of pupil interests, concerns, and needs provides for content and learning experiences. (Op-Elem, Sec) In a departmental organization, courses having this structure typically meet for two or more consecutive class periods (See item X0686.12, Block of Time).
- X 11 10.80 Combination—A combination of structures included under items X4110.10 to X4110.50 and X4110.90. (Op-Elem, Sec) The structures comprising such a combination should be specified.

100

41 STRUCTURE OF PROGRAM OF STUD-IES OR COURSE—Continued

X 41 10.90 Other Structure—A structure of the content of the program of studies other than those presented under items X4110.10 to X4110.50. (Op-All) Any such structure should be specified.

MEDIUM OF INSTRUCTION (OR DIRECTION) (4, 5) X 42 00 Series

The principal medium by which a teacher communicates with his pupils, e.g., direct pupil-teacher interaction (in-school or out-of-school) and indirect pupil-teacher interaction such as television and correspondence. Items of information indicating where the pupil receives instruction—e.g., within the given school, at another school, at home, or in a hospital—are included under item X 34 00.

X 42 10. DIRECT PUPIL-TEACHER INTERACTION

(4) Instruction by one or more teachers²⁷ physically present, e.g., by a single teacher or by a team of 2 or more teachers. (Op-All) This instruction may take place in a school setting or out of school. Types of equipment utilized by teachers in their instruction may be described with terms included under item X3600.

- X 42 11. In-school Instruction (4)
- X 42 11.10 Single Teacher—(Op-All)
- X 42 11.20 Team of Teachers—Two or more teachers planning, instructing, and evaluating together for a given group of pupils. (Op-All)
- X 42 11.30 Tutoring—An activity in which instruction is provided an individual pupil by direct interaction with a teacher. (Op-All)
- X 42 11.40 Independent Study—An activity in which pupils, carrying on their studies without attending formal classes, consult periodically with one or more staff members for direction and assistance, and, frequently, work toward the completion of individual study projects. (Op-All)
- X 42 11.90 Other—Inschool instruction utilizing direct pupil-teacher interaction other than that included under items X4211.10 to X4211.40, e.g., instruction by a sequence of teachers. (Op-All) Any such instruction should be specified.
- X 42 12. Out-of-School Instruction (4)
- X 42 12.10 On-the-job Supervision—Supervision of the work portion of a course in a work-study program, at the pupil's place of employment, by a supervisor not employed by the school. (Op-Sec, JrC, AdEd)
- X 42 12.20 Home and/or Hospital Instruction—Instruction provided by a teacher in a residence, hospital, sanatorium, or convalescent home for pupils unable to attend a school. (Op-All) More specific items for location of instruction are included under item X3400.
- X 42 12.90 Other—Out-of-school instruction utilizing direct pupil-teacher interaction other than that included under items X4212.10 and X41212.20, (Op-All) Any such instruction should be specified.

X 42 20. INDIRECT PUPIL-TEACHER INTER-ACTION (4)

Instruction in which the principal medium is other than direct pupil-teacher interaction, e.g., a complete course or self-contained class taught by television, correspondence, telephone, or selfteaching materials.

- X 42 20.10 Television—Including closed circuit and broadcast television. (Op-All)
- X 42 20.20 Correspondence—Instruction which provides for the systematic exchange between teacher and pupils of materials sent by mail. (Op-Sec, JrC, AdEd)
- X 42 20.30 Radio--(Op-Elem, Sec, AdEd)
- X 42 20.40 Telephone—E.g., instruction in which a telephone provides two-way communication between a class and a resource person, or between a homebound pupil and his regular classroom. (Op-Elem, Sec, AdEd)
- X 42 20.50 Self-teaching Materials (Programmed Instruction)—Instruction provided by self-teaching materials (e.g., a programmed text, computer assisted instruction or other "teaching machine," or prerecorded tapes or records used for a foreign language course), whether in school, at home, or elsewhere. (Op-All)
- X 42 20.60 Recordings—Instruction provided primarily through the medium of tape recordings or other recording media, when such instruction is not included under items X4220.20 and X4220.50. (Op-Elem, Sec. AdEd)
- X 42 20.90 Other—Instruction having as its principal medium indirect pupil-teacher interaction other than that included under items X4220.10 to X4220.60, e.g., motion pictures and filmstrips. (Op-All) Any such medium should be specified.

METHODS OF INSTRUCTION (OR DIRECTION) (4, 5)

X 43 00 Series

The principal methods by which instruction is provided pupils, e.g., demonstration, discussion, laboratory experience, and lecture.

- X 43 00.01 Comparative Analysis—A thought process, structured by the teacher, employing the description, classification, and analysis of more than one system, group, or the like so as to ascertain and evaluate similarities and differences. (Op-All)
- X 43 00.02 Demonstration—An activity in which the teacher or another person uses examples, experiments, and/or other actual performance in order to illustrate a principle or show others how to do something. (Op-All)
- X 43 00.03 Diagnosis—The continuous determination of the nature of learning difficulties and deficiencies, used in teaching as a basis for the selection—day-by-day or moment-by-moment—of appropriate content and methods of instruction. (Op-All)
- X 43 00.04 Directed Observation—Guided observation provided for the purpose of improving the study, understanding, and evaluation of that which is observed. (Op-All)
- X 43 00.05 Discussion—An activity in which pupils, under teacher and/or pupil direction, exchange points of view concerning a topic, question, or problem in order to arrive at a decision or conclusion. (Op-All)
- X 43 00.06 Dramatization—Learning experiences concerned with expressive interpretation of ideas, concepts, and/or roles. (Op-All)

³⁷ A teacher is defined in Handbook IV: "A staff member performing assigned professional activities in guiding and directing the learning experiences of pupils in an instructional situation."

43 METHODS OF INSTRUCTION—Continued

- X 43 00.07 Drill—An orderly, repetitive, learning activity intended to help develop or fix a specific skill or aspect of knowledge. (Op-All)
- X 43 00.08 Experimentation—An activity involving a planned procedure accompanied by control of conditions and/or controlled variation of conditions together with observation of results for the purpose of discovering relationships and evaluating the reasonableness of a specific hypothesis. (Op-All)
- X 43 00.09 Field Experience—Educational work experience, sometimes fully paid, acquired by pupils in a practical service situation. (Op-All) Reference to cooperative on-the-job training is not recorded under this heading, but is included under item X4212.10.
- X 43 00.10 Field Trip—An educational trip to one or more places where pupils may study the content of instruction directly in its functional setting, e.g., a trip to a factory, newspaper office, or fire department. (Op-All)
- X 43 00.11 Group Work—A process in which members of the class, working cooperatively rather than individually, formulate and work toward common objectives under the guidance of one or more leaders. (Op-All)
- X 43 00.12 Laboratory Experience—Learning activities carried on by pupils in a laboratory designed for individual or group study of a particular subject-matter area, involving the practical application of theory through observation, experimentation, and research, or, in the case of foreign language instruction, involving learning through demonstration, drill, and practice. This applies also to the study of art and music, though such activity, in this instance, may be referred to as a studio experience. (Op-All)
- X 43 00.13 Lecture—An activity in which the teacher gives an oral presentation of facts or principles, the class frequently being responsible for note taking. This activity usually involves little or no pupil participation by questioning or discussion. (Op-All)
- X 43 00.14 Listening—Activities provided for pupils to learn by auditory means. (Op-All)
- X 43 00.15 Manipulative and Tactile Activity—Activity by which pupils utilize the movement of various muscles and the sense of touch in order to develop manipulative and/or perceptual skills. (Op-Elem, Sec, AdEd)
- X 43 00.16 Modeling and Imitation—An activity, frequently used for instruction in speech, in which the pupils listen to and observe a model as a basis upon which to practice and improve their performance. (Op-All)
- X 43 00.17 Practice—An activity in which pupils have opportunity to put into practice those skills and understandings previously learned through other instructional activities. (Op-All)
- X 43 00.18 Problem Solving—A thought process structured by the teacher and employed by the pupils for clearly defining a problem, forming hypothetical solutions, and possibly testing the hypotheses. (Op-All)
- X 43 00.19 Programmed Instruction—Instruction utilizing a workbook, textbook, or mechanical and/or electronic device which has been "programmed" to help pupils attain a specified level of performance by (a) providing instruction in small steps, (b) asking one or more questions about each step in the instruction and providing instant knowledge of whether each

- answer is right or wrong, and (c) enabling pupils to progress at their own pace. (Op-All) 00.20 Project—A significant practical unit of activity, having educational value, aimed at one or more
- X 43 00.20 Project—A significant practical unit of activity, having educational value, aimed at one or more definite goals of understanding, and involving the investigation and solution of problems. (Op-All)
- X 43 00.21 Reading—Activities—including both silent reading and listening to oral reading—in which pupils get meaning from written or printed sources. (Op-All)
- X 43 00.22 Recitation—Activities devoted to reporting to a class or other group about information acquired through individual study or group work. (Op-All)
- X 43 00.23 Seminar—An activity in which a group of pupils, engaged in research or advanced study, meets under the general direction of one or more staff members for a discussion of problems of mutual interest. (Op-Sec, JrC, AdEd)
- X 43 00.24 Shopwork—An activity emphasizing experiences in woodwork, metalwork, or other industrial processes and procedures. (Op-Elem, Sec, AdEd)
- X 43 00.25 Simulation—A learning process which involves pupils as participants in role presentations and/or games simulating real-life situations or environments. (Op–All)
- X 43 00.26 Testing—A process utilizing an examination, quiz, or other procedure measuring ability, achievement, and interest as a basis for the selection of appropriate content and methods of instruction, or utilizing a sequence of single questions as a means of selecting content and/or imparting information, as is the case in programmed instruction. (Op-All)
- X 43 00.99 Other Methods of Instruction—Principal methods, other than those included under items X4300.01 to X4300.26, by which instruction is provided for pupils, e.g., "inquiry," or, for the deaf, an oral, manual, or combined oral and manual method of instruction. (Op-All) Any such method should be specified.

OTHER PROCEDURES FOR INSTRUCTION (OR DIRECTION) (4)

X 44 00 Series

Items and categories of information under this heading may be used to describe selected aspects of teaching procedures typically utilized in the instruction of a self-contained class or course, e.g., grouping practices, resources used, and evaluation procedures. Other selected categories of information related to procedures for instruction are included under items X 41 00, X 42 00, and X 43 00.

X 44 10. SIZE OF GROUP FOR INSTRUCTION (4)

The size of a group for instruction in aspects of the subject matter, in relation to the usual section size for the type of self-contained class or course.

- X 44 10.10 Large Group—A group with the number of pupils in two or more typical sections of a course or self-contained class, frequently assembled for instruction in certain aspects of subject matter. (Op-Elem, Sec, JrC)
- X 44 10.20 Small Group—A group with half the number of pupils in a typical section, or fewer, frequently assembled for instruction in certain aspects of the subject matter, while other members of the section receive similar instruction from one



OTHER PROCEDURES FOR INSTRUC-TION (OR DIRECTION)—Continued

or more other staff members at the same time or from the same staff member at other times. (Op-Elem, Sec, JrC)

Individual Instruction—Instruction for a single person. (Op-Elem, Sec, JrC) X 44 10.30

X 44 20. BASIS FOR GROUPING PRACTICES (4)

Primary considerations typically utilized for grouping pupils within classes for instruction in a given self-contained class or course. (Op-

X 44 20.10 Abilities X 44 20.20 Achievement X 44 20.30 Age X 44 20.40 Interests

Personality Characteristics—E.g., a special class for emotionally disturbed pupils. X 44 20.50

X 44 20.60 Physical Development

X 44 20.70

X 44 20.90 Other Basis—(Specify.)

X 44 30. PUPIL PARTICIPATION IN PLANNING (4)

Pupil participation in the selection of objectives, content, and activities for a self-contained class or course. (Op-Elem, Sec)

X 44 40. PROVISIONS FOR INDIVIDUALIZATION OF INSTRUCTION (4)

The manner in which instruction is individualized, including the use of procedures, materials, and equipment such as independent study (see item X4211.40), tutoring (see item X4211.30), small groups (see item X4410.20), programmed instruction (see items X4220.50 and X4300.19), and assignments of differing quantities and types of schoolwork given to one or more pupils according to individual needs, interests, and abilities. (Op-Elem, Sec) These provisions may be specified.

USE OF PUPIL LEADERSHIP (4) X 44 50. Pupil participation in the direction or conduct of the activities of the self-contained class or course. In some instances, this means that the teacher or other staff member plays only a minor role in the planning and direction of activities. (Op-Elem, Sec)

X 44 60. EVALUATION PROCEDURES (4) Means by which teachers evaluate pupil performance and the adequacy of the subject matter and methods of instruction. (Op-Elem, Sec)

X 44 60.10 Observation X 44 60.20 X 44 60.30 Teacher-made Texts

Standardized Achievement Tests

X 44 60.40 Inventories

X 44 60.50 Pupil Self-evaluation

X 44 60.90 Other Evaluation Procedure—(Specify.)

X 44 90. OTHER TEACHING PROCEDURES (4)

Typical teaching procedures other than those identified under items X4410 to X4460.90. (Op-Elem, Sec) Any such procedure should be specified

SCHOOLS (SUMMARY INFORMATION) (1) X 51 00 Series

Summary information about schools may be recorded under this heading.

X 51 10. SCHOOLS IN SCHOOL SYSTEM (1)
A school system may be described in part by information about its schools, such as quantity, type, pupil membership, and programs of studies. Such information may be drawn from the descriptions of individual schools, as suggested in the 20000 Series of chapter 3, and used to describe the schools of the school system collectively and individually. (Rec)

FACILITIES (SUMMARY INFORMATION) (1) X 52 00 Series

Summary information about facilities may be recorded under this heading.

X 52 10. FACILITIES WITHIN SCHOOL SYSTEM (1) The types and quantities of facilities within a school system may be derived from item X3500 describing the individual schools of the system (see also item 23510 in chapter 3). These facilities include the buildings and sites belonging to or used for school purposes by the schools or by the school system. (Op)

PROGRAMS OF STUDIES (SUMMARY INFORMATION) (1, 2)

X 53 00 Series

Summary information about programs of studies may be included under this heading.

X 53 10. PROGRAMS OF STUDIES WITHIN SCHOOL

SYSTEM (1)
The types of programs of studies within a school system may be derived from item X5320, for individual schools, to indicate the variety in programs of studies and the number of schools offering each type. (Op)

X 53 20. PROGRAMS OF STUDIES OF SCHOOL (2)

Items of information describing aspects of the program of studies of a school may be drawn from the following items, with additional detail suggested in the 30000 Series of chapter 3, Items Describing A Program of Studies Describing A Program of Studies.

Single Program or Multiple Programs of Studies X 53 21. (2)

An indication as to whether the school provides one program of studies for all pupils (e.g., a college preparatory program) or offers more than one program of studies (e.g., a college preparatory and an occupational program).

Single Program of Studies—(Rec-Sec) Multiple Programs of Studies—(Rec-Sec) X 53 21.10 X 53 21.20

X 53 22. Type(s) of Program of Studies (2)
An identification of each type of program of studies offered by the school. (Rec-All) Designations for these programs are included under item X0243.

X 53 23. Area(s) of Specialization (2)

A designation, as appropriate, for the subject-matter area or areas in which pupils may specialize or concentrate within each program of studies offered by the school. (Op-Sec, JrC, AdEd) For designations, see item X2140 and appropriate portions of chapters 5 and 6.

SERVICES SUPPORTING INSTRUCTION (SUMMARY INFORMATION) (1, 3)

X 54 00 Series

Summary information about services supporting instruction may be included under this heading.

X 54 10. SCHOOL SERVICES SUPPORTING INSTRUCTION WITHIN THE SCHOOL SYS-TEM (1)

The types of school services supporting instruc-tion within a school system may be derived from item X3200 describing the individual schools of the system (see also item 23200 in chapter 3) to indicate the variety in school services supporting instruction and the number of schools offering each type of service. This includes services—such as resource services for pupils, pupil personnel



SERVICES SUPPORTING INSTRUCTION (SUMMARY INFORMATION)—Cont.

services, services for the instructional staff, and community services—which are not the actual teaching of classes and individual pupils, but enhance the instruction of the schools. (Op)

INSTRUCTIONAL SERVICES RELATED TO PROGRAM OF STUDIES (3) X 54 30.

Appropriate items of information from item X3200 of this chapter and the 50000 Series of chapter 3 may be utilized to describe instructional services closely associated with a program of studies, including the nature of the service, persons receiving the service, locations of service, and staff members assigned to the service. (Op-All)

PUPIL MEMBERSHIP (SUMMARY INFORMATION) (1, 2, 3, 4)

X 55 00 Series

Summary information about pupils may be included under this heading.

X 55 10. PUPIL MEMBERSHIP WITHIN SCHOOL SYSTEM (1)

An aspect of the size of the school system may be described by the number of pupils it serves, that is, by its pupil membership. The membership within a school system (or of a school) is the within a school system (or of a school) is the number of pupils on the current rolls within the school system (or school) on a given date. (Rec) For the school system, this figure may be derived by totalling the memberships of the individual schools as indicated under item X0910. If desired, additional information about these pupils—such additional information about these papers such as the number of pupils in the school system by sex, race, ability to speak English, programs of studies, and courses—may be derived from items X0930, X0940, and X5530 by totalling each of these items for all schools of the system.

PUPIL MEMBERSHIP IN PROGRAMS OF STUDIES, COURSES, AND COCURRICULAR X 55 30.

ACTIVITIES (2,3)
Information about pupil membership in the various types of programs of studies, self-contained classes, courses, and cocurricular activities of a school—or in the classes, courses, and activities of a program of studies—may be derived from items X0910 and X5540. (Op-All)

PUPIL

PUPIL MEMBERSHIP IN SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY (4)

Information about pupil membership in the general self-contained class or course may be derived in part from item X0910 for the number of pupils scheduled into the sections of the class of pupils scheduled into the sections of the class or course. (Op-All) The identity of these pupils may be obtained with the use of item X0970 for these sections.

STAFF MEMBERS (SUMMARY INFORMATION) (1, 2, 3, 4)X 56 00 Series

Summary information about instructional staff members may be included under this heading.

INSTRUCTIONAL STAFF WITHIN SCHOOL SYSTEM (1) INSTRUCTIONAL

An aspect of the size of a school system may be described by the number of instructional personnel

38 John F. Putnam and George G. Tankard, Jr. op. cit., p. 102.

it employs. One indication of the presumed quality of instruction may be derived from the qualifications of the instructional staff for the assignments

with which they are engaged.

The instructional staff includes those persons whose full-time or part-time assigned activities consist of teaching, aiding teaching, supervising instruction, improving the quality of teaching, or directing and managing a school. Among such persons are teachers, supervisors of instruction, school librarians, audiovisual personnel, and other instructional specialists. This also includes the instructional supervision function of school principals. Teachers frequently are classified further to indicate whether they are classroom teachers or whether they communicate with their pupils through a medium such as television, radio, or correspondence.³⁹ It is recommended that the school system have, as a minimum, information about the number and certification status of personnel in the school system. (Rec)

Information about the staff members of the school system may be derived from the summaries provided in items X5620, X5630, and X5640 as well as from information about their specific assignments in sections and services as provided in item X3100.

X 56 20. INSTRUCTIONAL STAFF MEMBERS WITHIN SCHOOL (2)

Information about the staff members involved in the instruction and direction of the self-contained classes, courses, cocurricular activities, and services provided by a school may be derived from information included under items X5630, X5640, and X3100. (Op-All) It could encompass a summary of the number of staff members, by assignment, and be related to characteristics of staff members through staff identification numbers and the personnel records.

INSTRUCTIONAL STAFF MEMBERS FOR PROGRAMS OF STUDIES (3) Information about the staff members involved X 56 30.

in the instruction and direction of self-contained classes, courses, cocurricular activities, and services which are a part of a given program of studies may be derived from information included under items X5640 and X3100. (Op-All) It could encompass a summary of the number of staff members, by assignment, and be related to characteristics of staff members through staff identification numbers and the personnel records. At its option, a school or school system may maintain separately a list of staff members qualified but not currently active in instructing or directing certain courses, cocurricular activities, and service which are a part of the program of studies.

STAFF MEMBERS FOR SELF-CONTAINED CLASS, COURSE, OR COCURRICULAR ACTIVITY (4) X 56 40.

Information about the staff members involved in the instruction of the various sections of a given self-contained class or course may be derived from information included under item X3110, Teacher or Other Staff Member Assigned. (Op-All)

COURSES (SUMMARY INFORMATION) (2, 3) X 57 00 Series

Summary information about courses may be included under this heading.

X 57 20. COURSES OFFERED BY SCHOOL (2)
Appropriate items of information from the 40000 and 50000 Series of chapter 3 may be



³⁹ For a more complete description of items of information about staff, see Allan R. Lichtenberger and Richard J. Penrod, op. cit.

COURSES (SUMMARY INFORMATION) -Continued

utilized to describe courses provided by the school, including subject matter, grade placement, level of difficulty, characteristics of pupils served, planned outcomes, number of pupils, number of sections, and staff members providing instruction. (Rec-Sec; Op-JrC, AdEd)

X 57 31. Courses in Program of Studies (3)

Courses which are required or elective for the program of studies are identified under items X2151 and X2152. These courses may be described using appropriate items of information, from the 40000 Series of chapter 3, including the type of information included under item X5720, above (ReceSection—IrC AdEd) above. (Rec-Sec; Op-JrC, AdEd)

X 57 32.

Courses Offered by Department (3)
Courses offered by a department of a school, such as a social studies department or home economics department. These courses may be described using appropriate items of information from the 40000 Series of chapter 3, including the type of information included under item X5720, above. (Op-Sec, JrC, AdEd)

COCURRICULAR ACTIVITIES (SUMMARY INFORMATION) (2, 3)

X 58 00 Series

Summary information about cocurricular activities may be included under this heading.

X 58 20. COCURRICULAR ACTIVITIES PROVIDED

BY SCHOOL (2)
Appropriate items of information from the 40000 and 50000 Series of chapter 3 may be utilized to describe cocurricular activities provided by the school, including the content of each cocurricular activity, level of ability required, characteristics of pupils served, planned outcomes, number of pupils, and staff members providing instruction or direction. (Op-All)

COCURRICULAR ACTIVITIES RELATED TO PROGRAM OF STUDIES (3) X 58 30.

Appropriate items of information from the 40000 and 50000 Series of chapter 3 may be utilized to describe cocurricular activities related to the program of studies, including the types of information suggested under item X5820, above. (Op-Sec, JrC, AdEd)

SECTIONS (SUMMARY INFORMATION) (4) X 59 00 Series

SECTIONS OF SELF-CONTAINED CLASS. COURSE, OR COCURRICULAR ACTIVITY

This category includes information about the manner in which the various sections of a self-contained class or course vary from one to another. (Op-All) Any such information—including factors such as varying pupil groups, differences in planned outcomes, and variety in level of difficulty—should be included also under item X0100 (or item 50100 of chapter 3) to indicate more exactly the specifications for each section of the selfcontained class or course.

OTHER INFORMATION (1, 2, 3, 4, 5)X 99 00 Series

X 99 00. OTHER INFORMATION (1, 2, 3, 4, 5) Included under this heading is information not classifiable under items X0100 to X5900. (Op-All)



Classification of Items of Information About Subject-matter Areas and Cocurricular Activities

Chapters 5 and 6 are designed to assist local school systems and State education agencies in identifying and describing items of information about subject matter and cocurricular activities in elementary, secondary, junior college, and adult education instructional programs. Twenty subjectmatter areas—plus one area for cocurricular activities and one area for general elementary education and general secondary education—including selected subject matter in each, have been identified and included in this handbook as representative of the subject matter provided in the instructional programs cited above. Seven of these areas are frequently referred to as vocational areas, and are Agriculture, Distributive Education, Health Occupations Education, Home Economics, Office Occupations, Technical Education, and Trade and Industrial Occupations.

The selection of the subject-matter areas, including the subject matter in them—classified in this chapter and described in chapter 6—was determined by (1) an extensive study of record and report forms of local school systems and State education agencies, (2) an extensive review of a wide range of professional literature concerned with subject-matter areas and cocurricular activities, and (3) conferences with numerous persons in State education agencies, local school systems, colleges and universities, and the Office of Education. In addition to being useful in identifying, classifying, and describing various aspects of subject matter, the 22 areas are intended to provide a means for relating teacher certification to selected subject-matter areas and cocurricular activities, as well as aspects of subject matter within them. The findings in the research of a wide range of literature and record and report forms closely parallel the subject-matter areas treated in chapters

A coding system, appropriate for use in schools and school systems, is used which provides a distinct

5 and 6.

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identity for each subject-matter area and for each of the classified items of information within it. The Cocurricular Activities and the General Elementary Education and General Secondary Education areas are coded in the same manner. Definitions of the items are found in chapter 6, and the page numbers on which the definitions are recorded are indicated in the column under the heading of "Definition page No." to the right of the items classified in this chapter.

Identification Numbers

The code numbers appearing at the left of the items of information included in the classifications are for identification purposes. Many of the items are refined to include one or more related subitems of information. The identification codes may be used with appropriate modifications in the collection, storage, retrieval, and transmission of information about subject matter and may be used by local and State school systems for both manual and machine methods of data processing. The interpretation of the 10-digit code used in chapters 5 and 6 is as follows:

00 First 2-digit position: subject-matter area 00 Second 2-digit position: principal segment of subject matter

00 Third 2-digit position: division of principal segment

00 Fourth 2-digit position: first-level detail of division of principal segment (in some cases principal segments are substructured into major aspects rather than discrete divisions of subject matter, the third 2-digit position being vacant with major aspects being identified in the fourth 2-digit position, e.g., Distributive Education and selected portions of Mathematics).

00 Fifth 2-digit position: second-level detail of division

Information According to Type of Instructional Program

Information about subject matter in instructional programs is essential for schools and school systems throughout the United States and its outlying areas. There are differences among local schools and school systems concerning selected aspects of subject matter emphasized in the various subject-matter areas. Those items of information which describe the subject matter of instruction provided in a local school or school system may be identified locally by inserting the designation "X" after them for the appropriate type of instructional programelementary, secondary, junior college, or adult education. These designations may be recorded on the right-hand side of the page, beginning on this page. Thus, the arrangement of classifications of items and types of programs was designed to provide a specific descriptive reference when filled in by the user.

Cross-References

The cross-references used in this chapter and chapter 6 are as follow:

See An item followed by "(See)" has become subsumed in the item to which cross-reference is made.

See also An item followed by "(See also)" is also defined, with variation for a particular application, in the subject-matter area to which cross-reference is made.

For definition see An item followed by "(For definition see)" has only one definition. This definition is in the subject-matter area to which cross-reference is made.

For description see An item followed by "(For description see . . .)" appears only under Technical Education and refers to substantive content in another subject-matter area. The term "description" indicates that the item referred to includes a description of the nature of the content at the technical level.

Included as An item followed by "(Included as)" has only one definition. The definition is in the subject-matter area in which the item followed by "Included as" appears.

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| 11.05 01 00 00 | Business Arithmetic (Included as 03.05 00 00 00 Business Arithmetic or Mathematics under BUSI- NESS) | 202 | | | | |
| 11.05 02 00 00 11.05 03 00 00 | Consumer Mathematics Shop Mathematics (Included as 10.09 00 00 00 Industrial Arts Mathematics under INDUSTRIAL | 202 202 | | | | |
| 11.05 99 00 00 | ARTS) Other Applied Mathematics (Specify.) | 202 202 | | | | |
| 11.06 00 00 00 | Calculus—(Topics from which selections may be made for describing the subject matter in 11.06 01 00 00 First- and 11.06 02 00 00 Second-year Calculus are | | | | | |
| | listed under 11.06 00 00 00 Calculus in chapter 6.) | 202 | | | | |
| 11.06 01 00 00 11.06 02 00 00 | First-yearSecond-year | 203 203 | | | | |
| 11.07 00 00 00 11.08 00 00 00 | Calculus with Analytical Geometry. Computer Mathematics—(Topics from which selections may be made for describing the subject matter are listed under 11.08 00 00 00 Computer Mathematics in chapter 6.) (See also 03.17 03 00 00 Computer-oriented Mathematics (Data-processing Mathematics) under | 203 | | | | |
| 11.09 00 00 00 | BUSINESS.) Elementary Functions—(Topics from which selections may be made for describing the subject matter are listed under 11.09 00 00 00 Elementary Functions in | 203 | | | | |
| 11.10 00 00 00 | chapter 6.) First-year College Mathematics for Elementary School Teachers—(Topics from which selections may be made for describing the subject matter are listed under 11.10 00 00 00 First-year College Mathematics | 203 | | | | |
| | for Elementary School Teachers in chapter 6.) | 203 | | | | |



| | | | Classification of items of information | Definitio page No. | Type of instructional program | | | |
|----------|-----|-----|---|---|-------------------------------|-----------|-------------------|----------------|
| | | | Classification of items of information | | Elementary | Secondary | Junior College | Adult educatio |
| 11 MA | rH) | EMA | ATICS—Continued | | | | | |
| 11.11 00 | 00 | 00 | General Mathematics—(Topics from which selections | | | | | |
| | | | may be made to describe subject matter in 11.11 01 00 | | | | | |
| | | | 00 First-, 11.11 02 00 00 Second-, 11.11 03 00 00 Third-, and 11.11 04 00 00 Fourth-year General | | | | | |
| | | | Mathematics are listed under 11.11 00 00 00 General | | | | | |
| | | | Mathematics in chapter 6.) | 203 | | | | |
| 11.11 01 | 00 | 00 | First-year | 203 | | | | |
| 11.11 02 | | | Second-year | 204 | | | | |
| 11.11 03 | | | Third-year | 204 | 1 | | | |
| 11.11 04 | UU | vv | Fourth-year | 205 | | | | |
| 11.12 00 | 00 | 00 | Geometry—(Topics from which selections may be made | | | | | |
| | | | to describe the subject matter are listed under 11.12 00 00 00 Geometry in chapter 6.) | 206 | | | | |
| | | | | 200 | | | | |
| 11.12 01 | 00 | 00 | Analytic Geometry—(Topics from which selections | | | | | |
| | | | may be made to describe the subject matter are listed under 11.12 01 00 00 Analytic Geometry in | | | | | |
| | | | chapter 6.) | 206 | | | | |
| 11.12 02 | 00 | 00 | Plane Geometry—(Topics from which selections may | | | | | |
| | | | be made to describe the subject matter are listed under 11.12 02 00 00 Plane Geometry in chapter 6.) | 206 | | | | |
| 11.12 03 | 00 | 00 | Plane and Solid Geometry (integrated)—(Topics | 200 | | | | |
| | | | from which selections may be made to describe the | | | | 1 | |
| | | | subject matter are listed under 11.12 03 00 00 Plane and Solid Geometry (integrated) in chapter 6.) | 206 | | | | |
| 11.12 04 | 00 | 00 | Solid Geometry (integrated) in chapter 0.) | 207 | | | | |
| 11.12 99 | | | Solid Geometry Other Geometry (Specify.) | 207 | | k | | |
| 1.13 00 | 00 | 00 | Introduction to Analysis—(Topics from which selections | | | | | |
| 11.13 00 | v | v | may be made to describe the subject matter are listed | | | | | |
| | | | under 11.13 00 00 00 Introduction to Analysis in | | 1 | | | |
| 1.14 00 | 00 | 00 | chapter 6.)Liberal Arts Mathematics | $\begin{array}{c} 207 \\ 207 \end{array}$ | | | | |
| 1.15 00 | | | Probability and Statistics—(Topics from which selec- | 201 | | | | |
| | | | tions may be made to describe the subject matter are | | | 0 | | |
| | | | listed under 11.15 00 00 00 Probability and Statistics in chapter 6.) | 207 | | | | |
| 1.16 00 | 00 | 00 | Trigonometry—(Topics from which selections may be | 201 | | | | |
| | | | made to describe the subject matter are listed under | 4.2 | ľ | | | |
| 1.99 00 | 00 | 00 | 11.16 00 00 00 Trigonometry in chapter 6.) Other Mathematics (Specify.) | 208 208 | | | | |
| | | | | 200 | | | | |
| 2.00 00 | 00 | 00 | MUSIC | 1200 | | | | |
| 2.01 00 | 00 | 00 | Music (General Education) | 208 | | | | |
| 2.02 00 | | | Music Literature and/or History | 208 | | | | |
| 2.03 00 | 00 | 00 | Music Theory | 208 | | | | |
| 2.03 01 | .00 | 00 | Fundamentals | 208 | | | | |
| 2.03 02 | | | HarmonyOther Music Theory (Specify.) | 208 | | | | |
| 2.03 99 | 00 | 00 | Other Music Theory (Specify.) | 208 | | | | |
| 2.04 00 | 00 | 00 | Vocal Music | 208 | | | | |
| 2.04 01 | 00 | 00 | Choir, Chorus, and/or Glee Club | 208 | | | | |
| 2.04 01 | 01 | 00 | Female | 208 | | | | |
| 2.04 01 | | | Male | 208 | | | | |
| 2.04 01 | 03 | 00 | Mixed | 208 | | | | |
| 2.04 02 | 00 | 00 | Vocal Instruction | 208 | | | | |
| 2.04 02 | 01 | 00 | Group | 209 | | | | |
| 2.04 02 | | | Individual | 209 | 0.0 | | | |
| 2.04 03 | 00 | 00 | Small Vocal Encombles | 200 | | | | |
| 2.04 03 | | | Small Vocal Ensembles Other Vocal Music (Specify.) | 209 209 | | | | |
| | | | | | | | | |
| 2.05 00 | 00 | 00 | Instrumental Music | 209 | | | | |



| | Classification of items of information | Definitio | Туре | of instructio | nal prog | ram |
|----------------------------------|--|---|------------|---------------|-------------------|-----------------|
| | Classification of items of information | No. | Elementary | Secondary | Junior College | Adult education |
| 12 MUSIC—C | ontinued | | | | | |
| 12.05 01 00 00 | Band | | | | | |
| 12.05 01 01 00 | Concert | | | | | |
| 12.05 01 02 00 | Marching | 209 | | | | |
| 12.05 01 03 00 12.05 01 99 00 | StageOther Band (Specify.) | 209 209 | | | | |
| 12.05 02 00 00 | Orchestra | 209 | | | | |
| 12.05 02 01 00 | Chamber | 209 | | 111 | | |
| 2.05 02 02 00 | Full | | | | | |
| 12.05 02 03 00 | String | 209 | | | | |
| 12.05 02 99 00 | Other Orchestra (Specify.) | 209 | | | | |
| 12.05 03 00 00 12.05 04 00 00 | Small Instrumental EnsemblesInstrumental Instruction | 209 209 | | | | |
| 10 05 04 01 00 | Group | 200 | | | | |
| 12.05 04 01 00 12.05 04 02 00 | Individual | 209 209 | | ll i | | |
| 12.05 99 00 00 | Other Instrumental Music (Specify.) | 209 | | | | |
| 12.06 00 00 00 | Rhythm and Body Movement—(For definition see 08.03 04 02 00 Rhythms under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION.) | 209 | | | | |
| 12.07 00 00 00 | Humanities—(See also 02.01 03 00 00 Humanities under ART, 05.03 69 00 00 Humanities under ENGLISH LANGUAGE ARTS, 06.03 00 00 00 Humanities under FOREIGN LANGUAGES, and 15.09 00 00 00 Humanities under SOCIAL SCIENCES/SOCIAL | | | | | |
| | STUDIES.) | 209 | | | | |
| 12.99 00 00 00 | Other Music (Specify.) | 209 | | | | |
| 13.00 00 00 00 | NATURAL SCIENCES | 209 | | | | |
| 13.01 00 00 00 | General Science (including Elementary School Science) | 210 | | | | |
| 13.02 00 00 00 | (For subject matter select from wherever appropriate.) Biological Sciences (including General Biology) (For subject matter select from wherever appropriate.) | 210 210 | | | | |
| | | | | | | |
| 13.02 01 00 00 | Botany | 210 | | | | |
| 13.02 02 00 00 13.02 03 00 00 | Microbiology Zoology | 210 210 | | | | |
| 13.02 99 00 00 | Other Biological Sciences (Specify.) | 210 | | | | |
| | Major Aspects of the Biological Sciences: | 210 | | | | |
| 13.02 00 01 00 | Anatomy | 210 | | | | |
| 13.02 00 02 00 | Anthropology (See also 15.01 06 00 00 Physical Anthropology under SOCIAL SCIENCES/SO- | 210 | | | | |
| 3.02 00 03 00 | CIAL STUDIES.) Bacteriology | 210 | | | | |
| 3.02 00 04 00 | Behavior | 210 | | | | |
| 13.02 00 05 00 | Biochemistry | 210 | | | | |
| 13.02 00 06 00 | Biometrics | 210 | | | | |
| 13.02 00 07 00 | Biophysics Callular Phanemana (Cytology) | 210 | | | | |
| 13.02 00 08 00 13.02 00 09 00 | Cellular Phenomena (Cytology) Conservation (Environment) | $\frac{210}{210}$ | | | | |
| 3.02 00 09 00 | Developmental Biology | 210 | 18 | | | M |
| 3.02 00 10 00 | Ecology | 210 | 18 | | | |
| 3.02 00 11 00 | Entomology | 210 | | | | |
| 3.02 00 13 00 | Evolution | 210 | | | | |
| 3.02 00 14 00 | Genetics | 210 | | | | |
| 3.02 00 15 00 | Molecular Biology | 210 | | | | |
| 3.02 00 16 00 | Nature Study | 210 | | | | |
| 3.02 00 17 00 | Nutrition | 210 | | | | |
| 3.02 00 18 00 3.02 00 19 00 | Organic SystemsOrigins of Life | $\begin{array}{c} 210 \\ 210 \end{array}$ | | | | |
| 0.02 00 19 00 | Origins of Difference and an arrangement of the control of the con | 210 | | | | |



| | | | | | Classification of items of information | Definition pa ge | - 1 y pe | of instructio | a. progi | |
|----|------------|------|----|-----|---|---|------------|---------------|-------------------|--------------------|
| | | | | | Glassification of fitting of finite fination | No. | Elementary | Secondary | Junior College | Adult education |
| 13 | N | AT | UR | AL | SCIENCES—Continued | | | | | |
| | .02 | | | | Physiology | 210 | | | | |
| | .02 | | | | Reproduction | 210 | | | | |
| | .02 | | | | Taxonomy | 210 | | | | |
| | .02 .02 | | | | Technological ApplicationsOther Major Aspects of the Biological Sciences | 210 | | | | |
| | | | | 35 | (Specify.) | 211 | | | | |
| 3. | .03 | 00 | 00 | 00 | Physical Sciences (including General Physical Science) (For subject matter select from wherever appropriate.) | 211 | | | | |
| 2 | .03 | 01 | 00 | 00 | Chemistry | 211 | | | | |
| | .03 | | | | Physics | 211 | | | | |
| | .03 | | | | Other Physical Sciences (not including "earth-space sciences") (Specify.) | 211 | | | | |
| | | | | | Major Aspects of the Physical Sciences: | 211 | | | | |
| 3. | .03 | 00 | 01 | 00 | Astronomy (For definition see 13.04 01 00 00 Astronomy under Earth-Space Sciences.) | 211 | | | | |
| 3. | .03 | 00 | 02 | 00 | Atomic and Molecular Structure | 211 | | | | |
| 3. | .03 | 00 | 03 | 00 | Biochemistry (For definition see 13.02 00 05 00 Biochemistry under Biological Sciences.) | 211 | | . 111 | | |
| 3. | .03 | 00 | 04 | 00 | Biophysics (For definition see 13.02 00 07 00 Bio- physics under Biological Sciences.) | 211 | | | | |
| | .03 | | | | Chemical Bonding | 211 | | | | |
| | .03 | | | | Chemical Calculations | $\begin{array}{c} 211 \\ 211 \end{array}$ | 10 | | | |
| | .03 | | | 122 | Chemical ReactionsElectricity and Magnetism | 211 | | | | |
| | .03 | 1000 | | | Electronics | 211 | | | | |
| | 03 | | | | Equilibrium | 211 | | | | |
| 3. | .03 | 00 | 11 | 00 | Geology (For definition see 13.04 02 00 00 Geology | 011 | | | | |
| | 09 | 00 | 10 | 00 | under Earth-Space Sciences.) | $\begin{array}{c} 211 \\ 211 \end{array}$ | | | | |
| | 03 | | | | Heat Inorganic Chemistry | 211 | | | | |
| | 03 | | | | Inorganic Chemistry Kinetic Molecular Theory | 211 | | () A | | |
| 3. | 03 | 00 | 15 | 00 | Materials Science | 211 | | | | |
| | .03 | | | | Measurement | $\frac{211}{211}$ | | M | | |
| | 03 | | | | Mechanics Meteorology (For definition see 13.04 03 00 00 | 211 | | | | |
| | 03 | | | | Meteorology under Earth-Space Sciences.) Nuclear Science | $\frac{211}{211}$ | | | h ii | |
| | 03 | | | | Oceanography (For definition see 13.04 04 00 00 Oceanography under Earth-Space Sciences.) | 211 | | | | |
| 3. | 03 | 00 | 21 | 00 | Optics | 211 | | | | (|
| | 03 | | | | Organic Chemistry | 211 | | | | |
| | 03 | | | | Periodic Properties | 211 | | | | 1 |
| | 03 03 | | | | Physical Chemistry Qualitative Analysis | $\begin{array}{c} 211 \\ 211 \end{array}$ | | | | |
| | 03 | | | | Quantitative Analysis | 212 | | | | |
| | 03 | | | | Quantum Mechanics | 212 | | | | |
| | 03 | | | | Solid State Physics | 212 | | | | |
| | 03 | | | 2 | Solution Phenomena | 212 | | | | |
| | 03 03 | | | | SoundStoichiometry | 212 212 | | | | |
| | 03 | | | | Technological Applications | 212 | | | | |
| 3. | 03 | 00 | 33 | 00 | Thermodynamics | 212 | | | | |
| _ | 03 03 | | | | Wave PhenomenaOther Aspects of the Physical Sciences (Specify.) | $\begin{array}{c} 212 \\ 212 \end{array}$ | | | | |
| 3. | 04 | 00 | 00 | 00 | Earth-Space Sciences (including General Earth-Space | | | | | |
| | | | | | Science) (For subject matter select from wherever appropriate.) | 212 | | | | |
| | 04 | | | | Astronomy | 212 | | | | |
| | 04 | 100 | | | Geology Metaorology | $\begin{array}{c} 212 \\ 212 \end{array}$ | | | | |
| | 04 04 | | | | Meteorology | 212 | | | N | |
| | 04 | | | | Space Exploration | 212 | | | | |
| | | | | 00 | Other Earth-Space Sciences (Specify.) | 212 | | | | |



| | | | | Definition | Туре | of instructio | nal progr | am |
|--------------------|-------|------|--|------------|------------|---------------|-------------------|----------------|
| | | | Classification of items of information | No. | Elementary | Secondary | Junior College | Adult educatio |
| 13 NA | TUR | AL | SCIENCES—Continued | | | | | |
| | | | Major Aspects of the Earth-Space Sciences: | 212 | | | | |
| 13.04 | 00 01 | 00 | Aeronautics | 212 | | | | |
| 13.04 | 00 02 | 00 | Astronautics | 212 | 1 | | | |
| 13.04 (| | | Biological Interrelationships | | | | | |
| 13.04 | | 3131 | Climatology | 212 | | | | |
| 13.04 | | | Cosmology | 212 | | | | |
| 13.04 | | | Earth ChangesForces and Motion | 212 | | | | |
| l3.04 (l3.04 (| | | Geochemistry | 212 212 | | | | |
| 3.04 | | | Geophysics | 212 | | | | |
| 13.04 | | | Hydrology | 212 | | | | |
| 3.04 | | | Instrumentation and Analytical Methods | 213 | | | | |
| 13.04 | | | Levels of Organization | 213 | | 1 | | |
| 13.04 (| 00 13 | 00 | Matter-energy Exchange | 213 | | l . | | |
| 13.04 (| 00 14 | 00 | Measurement (For definition see 13.03 00 16 00 | 200 | | | | |
| | | | Measurement under Physical Sciences.) | | | | | |
| 13.04 | | | Paleontology | 213 | | | | |
| 13.04 | | | Physical Geography | | | 1) | | |
| 13.04 | | | Soil Science | | | 1 | | |
| 13.04 (13.04 (| | | UniformitarianismTechnological Applications | 213 213 | | | | |
| 13.04 (| | | Other Aspects of the Earth-Space Sciences | 213 | | | | |
| 10.01 | 00)) | 00 | (Specify.) | 213 | | 1 | | |
| 14.00 (| 00 00 | 00 | OFFICE OCCUPATIONS | 213 | | | | |
| | | | | | | | | |
| 14.01 (| 00 00 | 00 | Accounting and Computing Occupations (See also the category 03.01 00 00 00 Accounting, and 03.03 06 00 00 Payroll Recordkeeping, 03.08 00 00 00 Business Finance, 03.09 00 00 00 Business Law, 03.12 00 00 00 Business Statistics, and 03.26 01 00 00 Business Principles under BUSINESS.) | 213 | | | | |
| 14 07 (| 00 50 | 00 | A (D O T N 100) | 014 | | i | | |
| 14.01 (14.01 (| | | Accountants (D.O.T. No. 160 series) Bookkeepers (D.O.T. No. 210 series) (See also the category 03.03 00 00 00 Bookkeeping under BUSI-NESS.) | 214 | | | | |
| 14.01 | 03 00 | 00 | Cashiers (D.O.T. No. 211 series) | 214 | | | | 1 |
| 14.01 | | | Machine Operators: Billing, Bookkeeping, and Computing (D.O.T. Nos. 214., 215., 216., and 217. series) (See also 03.03 05 00 00 Machine Bookkeeping and the category 03.10 00 00 00 Business | | | | | |
| | | | Machines under BUSINESS.) | 214 | | | | |
| 14.01 | | | Tellers (D.O.T. No. 210. series) | 214 | 2 | | | |
| 14.01 9 | 99 00 | 00 | Other Accounting and Computing Occupations | 214 | | | | |
| | | | (D.O.T. No. 219. series) (Specify.) | 214 | | | | |
| 14.02 (| 00 00 | 00 | Business Data Processing Systems Occupations (See also 03.01 02 00 00 Accounting Systems, 03.01 05 00 00 Cost Accounting, 03.01 07 00 00 Data Processing Accounting, 03.12 00 00 00 Business Statistics, 03.17 00 00 00 Data Processing and Computer Operation, 03.17 01 00 00 Introduction to Data Processing, and 03.17 02 00 00 Data Processing Systems under BISTNESS. | 214 | | | | |
| | | | BUSINESS.) | 214 | 1 | | N N | |
| 14.02 (| 01 00 | 00 | Computer and Console Operators (D.O.T. No. 213. series) (See also 03.17 05 00 00 Computer Operation: Introduction under BUSINESS.) | 214 | | | | |
| 14.02 (| 02 00 | 00 | Peripheral Equipment Operators (D.O.T. No. 213. series) (See also 03.17 06 00 00 Processing Equipment Operation, 03.17 06 02 00 Tabulating Equipment Operation, and 03.17 06 03 00 Tabu- | | | | | |
| | r | | lating Machine Wiring under BUSINESS.) | 214 | | | | |
| 14.02 (| 02 01 | 00 | Key Punch and Coding Equipment Operators (D.O.T. No. 213. series) (See also 03.17 06 01 00 Punch Card Data Processing under BUSINESS.) | 214 | | | | |
| 14.02 (| 02 99 | 00 | Other Peripheral Equipment Operators (D.O.T. | 214 | | | | |
| | | | Nos. 213. and 219. series) (Specify.) | 214 | | | 1 | |



| | | | | | Definition | | of instructio | nal prog | ram |
|--------------|----|----|----|--|------------|------------|---------------|-------------------|--------------------|
| | | | | Classification of items of information | No. | Elementary | Secondary | Junior College | Adult education |
| 14 0 | FF | CE | oc | CUPATIONS—Continued | | | | | |
| 14.02 | 03 | 00 | 00 | Programmers (D.O.T. No. 020. series) (See also 03.17 04 00 00 Computer Programming under BUSINESS.) (Included as 16.04 01 00 00 Computer Programmer under TECHNICAL EDUCATION) | 214 | | | | |
| 14.02 | 04 | 00 | 00 | Systems Analysts (D.O.T. Nos. 012. and 020. series) (Included as 16.04 02 00 00 Systems Analyst Technology under TECHNICAL EDUCATION) | 215 | | | | |
| 14.02 | 99 | 00 | 00 | Other Business Data Processing Systems Occupations (D.O.T. No. 223. series) (See also 03.17 99 00 00 Other Data Processing and Computer Operation | 215 | | | | |
| | | | | under BUSINESS.) | 215 | | | 1 | |
| 14.03 | 00 | 00 | 00 | Filing, Office Machines, and General Office Clerical Occupations (See also 03.10 00 00 00 Business Machines and 03.14 00 00 00 Clerical Practice under BUSINESS.) | 215 | | | | |
| 14.03 | 01 | 00 | 00 | Duplicating Machine Operators (D.O.T. No. 207. series) (See also 03.10 04 00 00 Duplicating Machines | 015 | | | | |
| 14.03 | 02 | 00 | 00 | under BUSINESS.) File Clerks (D.O.T. No. 206. series) (See also 03.21 | 215 | | | | 1 ' |
| 14.03 | | | | 00 00 00 Filing under BUSINESS.) General Office Clerks (D.O.T. No. 219. series) (See also 03.22 00 00 00 Filing and Record Control under | 215 | | | | |
| 14.03 | 99 | 00 | 00 | BUSINESS.) Other Filing, Office Machines, and General Office | 215 | | | | |
| | | | | Clerical Occupations (D.O.T. Nos. 208. and 209. series) (Specify.) | 215 | | | | |
| 14.04 | 00 | 00 | 00 | Information Communication Occupations (See also 03.06 00 00 00 Business Communications under BUSINESS.) | 215 | | | | |
| 4.04 | 01 | 00 | 00 | Communication Systems Clerks and Operators (D.O.T. Nos. 235. and 236. series) | 215 | | | | |
| 4.04 | 02 | 00 | 00 | Correspondence Clerks (D.O.T. No. 204. series) (See also 03.06 02 00 00 Report Writing under BUSI-NESS.) | 215 | | | | |
| 14.04 | 03 | 00 | 00 | Mail and Postal Clerks (D.O.T. Nos. 231. and 232. series) | 215 | | | | |
| 4.04 | 04 | 00 | 00 | Mail-preparing and Mail-handling Machine Operators (D.O.T. No. 234. series) | 216 | | | | |
| 4.04 | 05 | 00 | 00 | Messengers and Office Boys and Girls (D.O.T. No. 230, series) | 216 | | | | |
| 4.04 | 06 | 00 | 00 | Receptionists and Information Clerks (D.O.T. No. | | | | | |
| 4.04 | 99 | 00 | 00 | 237. series) Other Information Communication Occupations (D.O.T. Nos. 239. and 249. series) (Specify.) | 216 216 | | | | |
| 4.05 | 00 | 00 | 00 | Materials Support Occupations: Transporting, Storing, and Recording (See also 03.09 00 00 00 Business Law, 03.12 00 00 00 Business Statistics, and 03.26 01 00 00 Business Principles under BUSINESS.) | 216 | | | | |
| 4.05 | 01 | 00 | 00 | Planning and Production Clerks (D.O.T. No. 221. | 016 | | | | |
| 4.05 4.05 | | | | series)Quality Control Clerks (D.O.T. No. 168. series)Shipping and Receiving Clerks (D.O.T. No. 222. | 216 216 | | | | |
| 4.05 4.05 | | | | Stock and Inventory Clerks (D.O.T. No. 223. series) | 216 216 | | | | |
| 4.05 | 99 | 00 | 00 | Nos. 222. and 919. series) Other Materials Support Occupations: Transporting, Storing, and Recording Occupations (D.O.T. Nos. 224., 229., and 919. series) (Specify.) | 216 216 | | | | |
| 4.06 | 00 | 00 | 00 | Personnel, Training, and Related Occupations (See also 03.11 00 00 00 Business Psychology and 03.26 03 00 | | | | | |
| | | | | 00 Labor Management Relations under BUSINESS.) | 216 | | | | |



| | | Classification of items of information | Definition | 1 ype | of instructio | nai progr | am |
|----------------------|-------|--|------------|------------|---------------|-------------------|-----------------|
| | | Classification of items of information | No. | Elementary | Secondary | Junior College | Adult education |
| 14 OFFI | ICE O | CCUPATIONS—Continued | | | | | |
| 14.06 01 | 00 00 | Educational Assistants and Training Specialists | 27.6 | | | | |
| 14.06 02 | 00 00 | D.O.T. No. 166. series)Interviewers and Tests Technicians (D.O.T. Nos. | 216 | | | | |
| 14.06 03 | 00 00 | Personnel Assistants (D.O.T. Nos. 166. and 205. series) | 216 216 | | | | |
| 14.06 99 | 00 00 | Other Personnel, Training, and Related Occupations (D.O.T. Nos. 166., 205., and 249. series) | 217 | | | | |
| 14.07 00 | 00 00 | Stenographic, Secretarial, and Related Occupations (See also 03.06 00 00 00 Business Communications, 03.28 00 00 Office Practice, and the category 03.34 00 00 00 Shorthand, Stenographic, and Secretarial under | 215 | | | | |
| | | BUSINESS.) | 217 | | | | |
| 14.07 01 | 00 00 | Executive Secretary (See also 14.08 01 00 00 Administrative Assistants under Supervisory and Administrative Management Occupations.) | 217 | | | | |
| 14.07 02 | | Secretaries (D.O.T. No. 201. series) | 217 | | | | |
| 14.07 03 14.07 99 | | Stenographers (D.O.T. No. 202. series) Other Stenographic, Secretarial, and Related Occupa- | 217 | | | | |
| 14.01)) | 00 00 | tions (D.O.T. No. 209. series) (Specify.) | 217 | | | | |
| 14.08 00 | 00 00 | Supervisory and Administrative Management Occupations (See also the category 03.01 00 00 00 Accounting; the items 03.04 00 00 00 Budget Control, 03.06 00 00 00 Business Communications, 03.08 00 00 00 Business Finance, 03.09 00 00 00 Business Law, and 03.12 00 00 00 Business Statistics; and the category 03.26 00 00 00 Business and Management Principles under BUSINESS.) | 217 | | | | |
| 14.08 01 | | Administrative Assistants (D.O.T. No. 169. series) (See also 03.01 12 00 00 Secretarial Accounting under BUSINESS and 14.07 01 00 00 Executive Secretary.) | 217 | | l k | | |
| 14.08 02 | 00 00 | Budget Management Analysts (D.O.T. No. 161. | 217 | | | | |
| 14.08 03 | 00 00 | Clerical and Office Supervisors (D.O.T. Nos. 160.– 169, series) | 217 | | 5 | | |
| 14.08 04 | 00 00 | Data-methods and Systems-procedures Analysts | | | | | |
| 14.08 05 | 00 00 | (D.O.T. No. 012. series) | 217 | | | | |
| 14.08 99 | 00 00 | other Supervisory and Administrative Management Occupations (D.O.T. Nos. 160.–169., 188., and | 217 | | | | |
| | | 189. series) (Specify.) | 217 | | | | |
| 14.09 00 | 00 00 | Typing and Related Occupations (See also 03.06 00 00 00 Business Communications and the category 03.35 00 00 00 Typewriting under BUSINESS.) | 217 | | | | |
| 14.09 01 | 00 00 | Clerk Typists (D.O.T. No. 209. series) | 217 | | | | |
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Definitions of Items of Information About Subject-Matter Areas and Cocurricular Activities

This chapter contains the definitions of the classified items of information in chapter 5. The classifications and numbering of the items in this chapter are identical with those in chapter 5.

The items of information in each of the 20 subject matter areas represent (1) selected aspects of subject matter as appropriate for elementary, secondary, junior college, and adult education, and (2) a selection of items of information which will serve to describe the subject matter in a majority of the instructional programs across the Nation. Of the 20 subject matter areas seven are identified with vocational education. These are Agriculture, Distributive Education, Health Occupations Education, Home Economics, Office Occupations, Technical Education, and Trade and Industrial Occupations. Of the 22 areas one is devoted to General Elementary Education and General Secondary Education and one to Cocurricular Activities.

The items of information about subject matter in this chapter are only briefly described; however, there are many items of information concerned with the *organization* and *administration* of curriculum and instruction which can be related to these items to provide additional description of subject matter. These items are classified and described in this handbook in chapters 3 and 4, respectively.

AGRICULTURE 01.00 00 00 00

Agriculture is comprised of the group of related courses or units of subject matter which are organized for carrying on learning experiences concerned with preparation for or upgrading in occupations requiring knowledge and skills in agricultural subjects. The functions of agricultural production, agricultural

Note.—For the interpretation of the code numbering system see *Identification Numbers* in the introduction to chapter 5. For the key to the cross-referencing system see *Cross-References* in the introduction to chapter 5.

supplies, agricultural mechanization, agricultural products (processing), ornamental horticulture, forestry, agricultural resources, and the services related thereto, are emphasized in the instruction designed to provide opportunities for pupils to prepare for or improve their competencies in agricultural occupations. An agricultural occupation may include one or any combination of these functions.

The Ad Hoc Committee for Agriculture applied the following rationale to the selection of the items for placement in the Agriculture area: (1) the items were determined by consensus of the committee to be appropriate to agriculture; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various items classified under Agriculture were identifiable by titles which the ad hoc committee considered to be most commonly used in agriculture.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items included in the X 07 00. Series.—Evaluation and Curriculum Improvement on pages 71–78 and the items included in the X 32 00. Series.—Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Future Farmers of America (FFA) chapters and related leadership training and supervised occupational experience programs are significant integral activities which aid agricultural education in making contributions to the guidance and total general educational development of pupils. The Future Farmers of America and related leadership training permeate every aspect of the instructional program in agriculture. The foundation upon which the FFA is built includes leadership and character development, sportsmanship, cooperation, service, thrift, scholarship, improved agriculture, organized recreation, citizenship, and patriotism. (For a more detailed treatment of the aims and purposes of FFA

01 AGRICULTURE—(Continued) 01.01 01 04 00 Physiology-A study of the body processes and functions related to animal proesses and functions related to animal production such as lactation, reproduction (including artificial insemination and heat detection), egg production, digestion, growth, wool production, and other body processes and functions. (See also Major Aspects of the Biological Sciences, 13.02 00 20 00 Physiology, under NAT-URAL SCIENCES.) see Official Manual of Future Farmers of America.)¹ (See also Item 20.01 11 00 00 Future Farmers of America, page 243 in this handbook.) Included in this subject-matter area are the items of information which identify various aspects of agriculture. ANIMAL HEALTH—The study of environ-01.01 00 00 00 AGRICULTURAL PRODUCTION 01.01 01 05 00 ment, drugs, antibiotics, vaccinations, blood tests, and other management fac-Subject matter and learning activities which are concerned with the principles and processes involved in the planning retors in the prevention and control of diseases. lated to and the economic use of facilities, land, water, machinery, chemicals, finance, 01.01 01 06 00 PRODUCTION MANAGEMENT-A combinaand labor in the production of plant and animal products. In practice, activities intion of subject matter and experience con-cerned with operating and managing a commercial unit involving a specific class clude classroom instruction and laboratory experiences, in and out of school, including of animals. farms, ranches, and other agriculturally re-01.01 01 06 01 Feeding Practices-A study of the lated establishments. Aspects of agricultural "least-cost" combinations of feed inproduction are organized under a variety of descriptive titles, such as Animal Science, gredients for achieving maximum per-Plant Science, Farm Mechanics, Farm Business Management, and Other Agricultural 01.01 01 06 02 Housing Practices-A study of the housing and other environmental needs Production. of a specific kind of animal. 01.01 01 00 00 Animal Science-Planned learning experi-01.01 01 06 99 Other Production Management—Include ences which are concerned with the study here other subject matter and experiand the operations dealing with theories, ences emphasized in production manprinciples, and practices involved in producing animals and animal products for economic and other uses. (Included as 16.02 01 00 00 Animal Science under TECHNICAL EDUCATION and as part of 16.02 02 00 00 Dairy Technology under TECHNICAL EDUCATION) agement which are not listed above. (Specify.) 01.01 01 99 00 OTHER ANIMAL SCIENCE—Include here other organized subject matter and experiences emphasized in animal science which are not classifiable or listed above. (Specify.) 01.01 01 01 00 LIVESTOCK AND POULTRY-Organized subject matter and experiences designed for the study of and application to various 01.01 02 00 00 Plant Science—Planned learning experiences which are concerned with the study major livestock enterprises. Among the considerations emphasized in instruction are selection and breeding, nutrition, animal health, housing and feeding and operations dealing with principles and practices involved in the culture and production of agricultural plants, (Included as 16.02 04 00 00 Plant Science under TECHpractices, and management and market NICAL EDUCATION) ing. The following are frequently studied, but are not defined here because of their Crops—Organized subject matter and ex-01.01 02 01 00 periences designed for the study of and commonly understood descriptions. application to various major crop enter-prises. Among the considerations empha-01.01 01 01 01 Dairy Cattle sized in instruction are genetics, nutrition, soils, plant pathology, entomology, and disease and pest control. The following crops are frequently studied. 01.01 01 01 02 Beef Cattle 01.01 01 01 03 Horses 01.01 01 01 04 Swine 01.01 01 01 05 Sheep 01.01 02 01 01 Cereal Grain Crops-The study of prin-01.01 01 01 06 Poultry ciples and practices involved in the production of cereal grains (members 01.01 01 01 99 Other Livestock and Poultry-Include here other livestock and poultry em-phasized in instruction which are not of the grass family such as corn, wheat, rice, and oats). listed above, e.g., goats, buffalo, and laboratory animals. (Specify.) Fiber Crops—The study of principles and practices involved in the production of fiber-producing plants such as cotton and flax. 01.01 02 01 02 NUTRITION—The study of the relation-ship of proteins, fats, carbohydrates, water, minerals, and vitamins in the 01.01 01 02 00 production of meat, milk, eggs, and wool. (see also Major Aspects of the Biological Sciences, 13.02 00 17 00 Nutrition, under NATURAL SCIENCES.) Forage Crops-The study of the prin-01.01 02 01 03 ciples and practices involved in the production of forage for livestock, e.g., grasses and legumes. GENETICS—The study of the principles of 01.01 01 03 00 01.01 02 01 04 Oil Crops—The study of principles and practices involved in the production of oilseed crops such as soybeans, peanuts, inheritance and their applications for the improvement of animals through breeding and selection. (See also Major Aspects of the Biological Sciences, 13.02 00 14 00 Genetics, under NATURAL SCIENCES.) and sunflowers. 01.01 02 01 05 Tree Fruit and Nut Crops-The study of principles and practices involved in the production of citrus fruits, apples, peaches, pecans, walnuts, and other

tree fruit and nut crops.

¹ Official Manual of Future Farmers of America, a bulletin prepared by the Future Farmers Supply Service, (Alexandria, Va.: 1968), p. 11.

| 01 AGRICU | LTURE—(Continued) | 01.01 02 08 02 | d'interest de la constant de la cons |
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| 01.01 02 01 06 | Small Fruit Crops—The study of principles and practices involved in the production of strawberries, raspberries, blueberries, grapes, and other small fruit crops. | | Nematocides—The study of substances used to destroy or inhibit pathogens, particularly those causing plant diseases. Included for study are fungicides and nematocides which also act as bactericides and insecticides. |
| 01.01 02 01 07 | Vegetable Crops—The study of principles and practices involved in the production of potatoes, tomatoes, beans, sweet corn, peas, and other vegetable crops. | 01.01 02 08 03 01.01 02 08 04 | Herbicides—The study of compounds used to destroy or inhibit the growth of selected plants. Rodenticides—The study of compounds |
| 01.01 02 01 08 | Ornamental Crops—The study of the principles and practices involved in the production of shrubs, trees, flowers, | 01 01 02 00 05 | used to destroy rodents—especially rats and mice—and similar small animals. |
| | turf, and other plants used for ornamental and esthetic purposes. (See also 01.05 00 00 00 Ornamental Horticulture (Production, Processing, Market- | 01.01 02 08 05 01.01 02 08 06 | Nonchemical Controls—The study of other pest control (management of populations) such as biological, mechanical, and cultural methods. Plant Genetic Resistance—The study |
| 01.01 02 01 09 | ing, and Services).) Farm Forestry—(For definition see 01.07 00 00 00 Forestry (Production, Processing, Management, Marketing and Services).) | 01.01 02 00 00 | and application of genetics and breed- ing of plants having characteristic re- sistance to attack, infection, or loss from disease and insect pests. (See also |
| 01.01 02 01 99 | Other Crops—Include here other crops emphasized in instruction which are not listed above. (Specify.) | 01.01 02 08 99 | 01.01 02 04 00 Genetics, above.) Other Plant Disease and Pest Control— Include here other subject matter and experiences emphasized in plant disease |
| 01.01 02 02 00 | Soils—The study of the physical, chemical, biological, and fertility properties of soils in relation to their management for crop production and other agricultural operations. | 01.01 02 09 00 | and pest control. (Specify.) Environmental Biology—The study of the interaction of plant life processes with factors of the environment, and |
| 01.01 02 03 00 | NUTRITION—The study of the nutrient and soil fertility requirements of various agricultural plants. (See also Major Aspects of the Biological Sciences, 13.02 00 17 00 Nutrition, under NATURAL SCIENCES.) | 01.01 02 99 00 | their characteristics and implications for managing plant production. Other Plant Science—Include here organized subject matter and experiences emphasized in plant science which are not classifiable or listed above. (Specify.) |
| 01.01 02 04 00 | GENETICS—The study of the principles of inheritance and their applications for | 01.01 03 00 00 01.01 04 00 00 | Farm Mechanics—(See the category 01.03 00 00 00 Agricultural Mechanics.) |
| 01.01 02 05 00 | the improvement of plants through breeding and selection. (See also Major Aspects of the Biological Sciences, 13.02 00 14 00 Genetics, under NAT- URAL SCIENCES.) Physiology—The study of life processes | 01.01 01 00 00 | Farm Business Management—Planned learning activities concerned with farm resource analysis, accounting, production, financing, resource acquisition, purchasing, farm inputs, performance records, contracts, marketing, and maintenance. The re- |
| | in plants and their implications in production principles and practices. (See also Major Aspects of the Biological Sciences, 13.02 00 20 00 Physiology, under NAT- | 01.01 04 01 00 | to formulating decisions involved in managing a farm or ranch operation. FARM ACCOUNTS—Subject matter and ex- |
| 01.01 02 06 00 01.01 02 07 00 | URAL SCIENCES.) PLANT PATHOLOGY—The study of the symptoms, causes, and control (chemical and nonchemical) of plant diseases. Entomology—The study of beneficial and | | periences concerned with accounting as applied to the various enterprises in agricultural production. (See also the categories 03.01 00 00 00 Accounting, and 03.03 00 00 00 Bookkeeping, under BUSI- |
| 01.01 02 01 00 | harmful insects and their near relatives such as ticks, snails, slugs, spiders, and mites and their impact on agricultural production and methods of control. (See also Major Aspects of the Biological Sciences, 13.02 00 12 00 Entomology, under NATURAL SCIENCES.) | 01.01 04 02 00 | NESS.) Performance Records—Planned study and experiences concerned with the use of records in determining the efficiency of a production operation, e.g., yields per acre, pounds of milk per cow, and labor efficiency. |
| 01.01 02 08 00 | PLANT DISEASE AND PEST CONTROL— The study of symptoms, causes, and control of plant injuries and diseases caused by pests such as insects, diseases, nematodes, snails, mites, and injurious birds, and the chemical, physical, biological, cultural, and genetic methods of control | 01.01 04 03 00 | BUDGETING AND ANALYSIS—Subject matter and learning experiences involving the use of quantitative input-output relationships, costs, and price expectations to secure optimum economic returns to the enterprises of the commercial agricultural unit or the farm as a whole. |
| 01.01 02 08 01 | of the undesirable forms of plant and animal life. Insecticides—The study of substances or mixtures of substances that may be used to destroy or otherwise control insects and their near relatives, such as ticks, snails, slugs, mites, and spiders. | 01.01 04 04 00 | MANPOWER UTILIZATION—The study of factors that contribute to efficient and economic use of labor resources and the implications of these factors for labor management decisions of the farm manager. Emphasis in instruction is on such considerations as the development of knowledge about and ability to work |

01 AGRICULTURE—(Continued) with agricultural manpower; employee selection; employer-employee relations; wages and working conditions; legal requirements; and conditions affecting the employee, e.g., education, health, and language barriers. MARKETING—The 01.01 04 05 00 PURCHASING AND study of (1) acquiring (purchasing) input units such as livestock, feed, seed, fertilizer, machinery, and equipment, and (2) marketing as applied to animal and plant products. FINANCIAL AND LEGAL MANAGEMENT— The study of factors involved in the con-01.01 04 06 00 trol and application of the financial and legal aspects of managing a commercial agricultural production business. FARM ORGANIZATIONS—Subject matter 01.01 04 07 00 concerned with a comprehensive study of current programs of the several national, regional, and local farmers' organizations -including their development and purposes GOVERNMENT PROGRAMS—The study of 01.01 04 08 00 current government policies, regulations, and programs available to and having influence upon agricultural production and management, farm prices, and income of rural people. OTHER FARM BUSINESS MANAGEMENT-01.01 04 99 00 Include here other organized subject matter and experiences emphasized in farm business management which are not listed above. Other Agricultural Production-In-01.01 99 00 00 clude here other organized subject matter and experiences emphasized in agricultural production which are not listed above. (Specify.) AGRICULTURAL SUPPLIES/ 01.02 00 00 00 SERVICES Subject matter and learning experiences concerned with preparing pupils for occu-pations involved in providing consumable supplies used in the production phase of agriculture—including processing, marketing, consulting, and other services. Various aspects of agricultural supplies are organized under descriptive titles such as those which Agricultural Chemicals—The study of a 01.02 01 00 00 variety of chemicals, drugs, and related products which are associated with the production of animal and plant products. Usually included for study are various types of chemicals used to prevent, control, or cure animal and plant diseases and control pests 01.02 02 00 00 Feeds-The study of the business of processing and distributing feeds and feedstuffs. Seeds-The study of the business of pro-01.02 03 00 00 ducing, processing, and distributing seeds. 01.02 04 00 00 Fertilizers (Plant Food)—The study of the principles concerned with the analysis, sale, and application of chemical elements known to be necessary for plant growth. These elements are classified as follows: primary—N, P, K; secondary—Ca, Mg, S; and micronutrients—B, Cu, Fe, Mn, Mo, Zn, 01.02 99 00 00 Other Agricultural Supplies/Services-Include here other organized subject matter and experiences emphasized in agricultural

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supplies which are not listed above. (Specify.)

management, and agricultural mechanics

01.03 00 00 00 AGRICULTURAL MECHANICS

A combination of subject matter and activities designed to develop abilities necessary for assisting with and/or performing the common and important operations or processes involved in the selection, operation, maintenance, and use of agricultural power, agricultural machinery and equipment, structures and utilities, soil and water

shop, including kindred sales and services.

O1.03 01 00 00 Agricultural Power and Machinery—A combination of subject matter and experiences designed to develop in pupils the abilities to (1) recognize and identify the fundamental principles of selection, operation, service, maintenance, repair, and safety in agricultural power—engines, electricity, and hydraulics, and (2) plan, install, service, assemble, adjust, operate, and repair farm machinery. (See also 16.01 02 02 00 Agricultural Machinery and Equipment under TECHNICAL EDUCATION.)

01.03 02 00 00 Agricultural Structures and Conveniences—Learning activities designed to assist pupils in developing the ability to plan, select materials for, and construct and maintain agricultural structures and conveniences. (See also 16.01 02 03 00 Agricultural Structures and Conveniences under TECHNICAL EDUCATION.)

01.03 03 00 00 Soil Management—A combination of subject matter and practical experiences designed to develop knowledge and skills concerned with surveying and classifying soils; determining cropping systems and fertilizer; and conditioning, and cultural practices that will result in efficient agricultural production.

01.03 04 00 00 Water Management—A combination of subject matter and practical experiences designed to develop knowledge and skills concerned with surveying, planning, laying out; constructing, using, and maintaining irrigation, drainage, water conservation, runoff, and erosion control systems, and with maintaining proper soil-water-plant relationships

01.03 05 00 00 Agricultural Mechanics Skills—Planned learning experiences designed to develop skills, abilities, and judgments necessary to select, use, and maintain hand and power tools, are and acetylene welders, and to plan and establish home farm shops.

01.03 06 00 00 Agricultural Construction and Maintenance—A combination of subject matter and experiences designed to develop skills and abilities necessary in the planning, layout, fabrication, and maintenance of farm and other agricultural equipment, especially small custom-built devices.

01.03 07 00 00 Agricultural Electrification—A combination of subject matter and experiences designed to provide opportunities for pupils to gain knowledge and understanding concerning making effective use of electricity and electrical equipment on farms, ranches, and other agricultural establishments. Included for study are the principles of electricity, maintenance and operation of equipment, and safety factors related thereto. (See also 16.01 02 01 00 Agricultural Electrification Technology under TECHNICAL EDUCATION.)

01.04 01 03 00

01 AGRICULTURE—(Continued)

01.03 99 00 00 Other Agricultural Mechanics—Include here other organized subject matter and experiences emphasized in agricultural mechanics which are not listed above. (Specify.)

01.04 00 00 00 AGRICULTURAL PRODUCTS

A combination of subject matter and learning experiences designed to teach basic principles and management decisions involved in the science and technology of farm products, including marketing, inspection, and processing. The groups of products include meat, fish, poultry, and eggs; dairy products; fruits and vegetables; cereal grains; oilseeds; cotton, tobacco, and wool; and others.

01.04 01 00 00 Food Products—A combination of subject matter and learning experiences concerned with the scientific principles and operations involved in the preparation of agricultural products for sale and consumption, including home and institutional preparation of food and its nutritive value. (Included as 16.02 03 00 00 Food Processing Technology under TECHNICAL EDUCATION)

01.04 01 01 00 MEAT, FISH, POULTRY, EGGS—A combination of subject matter and practical experiences concerned with the information, processes, science, and decisions associated with meats and meat products, fish, poultry, and eggs.

O1.04 01 02 00

DAIRY PRODUCTS—A combination of subject matter and practical experiences concerned with the information, processes, science, and decisions associated with milk and products derived from milk, e.g., cream, ice cream, butter, and cheese. (Included as 16.02 02 00 00 Dairy Technology under TECHNICAL EDUCATION)

FRUITS AND VEGETABLES—A combination of subject matter and practical experiences concerned with the information, processes, science, and decisions associated with fruit and vegetable products.

01.04 01 04 00 CEREAL GRAINS—A combination of subject matter and practical experiences which are concerned with the information, processes, science, and decisions associated with cereal grains and grain products, e.g., wheat and flour.

01.04 01 05 00

OILSEEDS—A combination of subject matter and practical experiences concerned with the information, processes, science and decisions associated with oilseeds and oilseed products, e.g., soybeans, cottonseed, sunflower, and the oils derived from these seeds and any other edible oilseeds.

OTHER FOOD PRODUCTS—Include here other subject matter and practical experiences emphasized in food products which are not listed above, e.g., mush-rooms, nut products, beverages, sugar-honey, maple products, condiments, and derivatives from nonfood crops, e.g., cottonseed oil. (Specify.)

01.04 02 00 00 Nonfood Products—A combination of subject matter and experiences concerned with the information, scientific principles, processes, and management decisions related to processing and marketing functions associated with nonfood products

such as cotton, tobacco, and wool, as well as the industrial nonfood uses of grains and oilseeds.

01.04 02 01 00 COTTON—Subject matter and learning activities concerned with assembling, ginning, baling, processing, and marketing the fibers and byproducts of cotton.

01.04 02 02 00 Tobacco—Subject matter and learning experiences concerned with grading, storing, processing, and marketing tobacco.

01.04.02.03.00 Wood—Subject matter and learning experiences.

01.04 02 03 00 Wool.—Subject matter and learning experiences concerned with assembling, sorting, grading, processing, and marketing wool.

01.04 02 99 00 OTHER NONFOOD PRODUCTS—Include here other subject matter and practical experiences emphasized in nonfood products which are not listed above, e.g., furs, hemp, and gum. (Specify.)

01.04 99 00 00 Other Agricultural Products—Include here other organized subject matter and practical experiences emphasized in agricultural products which are not classifiable or listed above. (Specify.)

01.05 00 00 00 ORNAMENTAL HORTICULTURE (PRODUCTION, PROCESSING, MARKETING, AND SERVICES)

Organized subject matter and practical experiences concerned with the culture of plants used principally for ornamental or esthetic purposes. Instruction emphasizes knowledge and understanding important to establishing, maintaining, and managing ornamental horticulture enterprises. Subject matter and experiences are organized under descriptive titles such as Aboriculture, Floriculture, Greenhouse Operation and Management, Turf Management, and other ornamental horticulture.

01.05 01 00 00 Arboriculture—Organized subject matter and practical experiences concerned with the principles and practices involved in the culture and maintenance of woody plants used for decoration and shade purposes.

01.05 02 00 00 Floriculture—Organized subject matter and practical experiences concerned with the principles and practices involved in field or greenhouse production of flowers and the arrangement of such flowers for ornamental purposes. (See also 04.05 00 00 00 Floristry under DISTRIBUTIVE EDUCATION.)

01.05 03 00 00 Greenhouse Operation and Management—Organized subject matter and practical experiences concerned with the principles and practices involved in producing plants under glass and in other artificial environments, including greenhouse operation, maintenance, and management.

01.05 04 00 00 Landscaping—Organized subject matter and practical experiences concerned with the principles and practices involved in locating, planting, and maintaining turf, plants, shrubs, trees, or devices for the beautification of home grounds and other areas of human habitation and recreation.

01.05 05 00 00 Nursery Operation and Management—
Organized subject matter and practical experiences concerned with the production of turf, plants, shrubs and/or trees for the purposes of transplanting or propagating them, including nursery operation, maintenance, and management.

01.05 06 00 00 Turf Management—Organized subject matter and practical experiences concerned with the principles and practices involved in



01 AGRICULTURE—(Continued) establishing, managing, and maintaining grassed areas for ornamental and/or recreational purposes. Other Ornamental Horticulture-In-01.05 99 00 00 clude here other organized subject matter and experiences emphasized in ornamental horticulture which are not listed above. (Specify.) AGRICULTURAL RESOURCES (CONSERVATION, UTILIZATION, AND SERVICES) 01.06 00 00 00 A combination of subject matter and planned learning experiences concerned with the principles and processes involved in the conservation and/or improvement of natural resources such as air, forests, soil, water, fish, plants, and wildlife for economic and recreation purposes. Instruction also emphasizes such factors as the establishment, management, and operation of forest lands used for recreational purposes. 01.06 01 00 00 Forests-A combination of subject matter and experiences concerned with forests as living communities of plants and animals in which trees are the dominant species. Emphasis is on the multiple use of forest lands and resources. 01.06 02 00 00 Recreation-The study of recreation as one of the multiple uses of land, including emphasis of the principles of conservation. Included in instruction are examples of recreation activities which can be established, maintained, and managed, such as fishing, picnicking, hunting, camping, and nature study. Soil-A combination of subject matter 01.06 03 00 00 and practical experiences designed to provide opportunities for gaining knowledge and understanding concerning the principles and practices involved in maintaining soil stability and productivity, including the prevention of erosion, pollution, water logging, exhaustion of plant nutrients, and the accumulation of toxic salts. Wildlife—including game farms and hunting areas—A study of the principles and practices involved in the preservation and/or improvement of wildlife such as 01.06 04 00 00 game, fowl, and fish. 01.06 05 00 00 Water-A combination of subject matter and practical experiences concerned with water conservation practices such as prevention of soil erosion, sedimentation, other pollution, seepage, and evaporation; flood control; aquatic weed control; and the development, conservation, and management of water supplies for agricultural, domestic, industrial, and recreational purposes. 01.06 06 00 00 Air—The study of air pollution, including the effects of agricultural activities on pollution, and the effects of pollution on plants Fish-including farms and hatcheries 01.06 07 00 00

A combination of subject matter and ac-

tivities concerned with the propagation, rearing, stocking, and management of fish in

Range-The study of theories, principles,

and practices involved in the preservation

and for improvement of natural range lands.

Other Agricultural Resources-Include

here other organized subject matter and experiences emphasized in agricultural re-

public and private waters.

sources which are not listed above, including emerging occupational areas in this category. (Specify.)

01.07 00 00 00 FORESTRY PRODUCTION, PROCESSING, MANAGEMENT, MARKETING, AND SERVICES

A combination of subject matter and experiences concerned with the multiple use of forest lands and resources, including their management and protection.

01.07 01 00 00 Forests—(For definition see 01.06 01 00 00 Forests under Agricultural Resources.)

01.07 02 00 00 Forest Protection—A combination of subject matter and activities designed to provide knowledge, understanding, and judgment concerning the behavior of enemies of the forest and their control.

01.07 03 00 00 Logging—harvesting and transporting
—Study, including observation and practical experiences, concerned with the initial collective activities involved in harvesting trees as a crop and in terms of not interfering with other desirable uses of the forest.

01.07 04 00 00 Wood Utilization—Organized subject matter and practical activities concerned with the many wood products of the forest. Emphasis in instruction is on the study of production, selection, grading, and marketing of forest raw material (wood) for multiple uses in conversion to consumer goods, e.g., paper, plywood, wallboard, plastics, and preservative-treated wood products.

01.07 05 00 00 Recreation—(For definition see 01.06 02 00 00 Recreation under Agricultural Resources.)

01.07 06 00 00 Special Products—Organized subject matter concerned with the production and marketing of special products, e.g., maple syrup, nuts, Christmas trees, and other products. Consideration is given to the great variety of products utilized in their natural states and/or manufactured from such products. The following are representative of special products.

01.07 06 01 00 CHRISTMAS TREES 01.07 06 02 00 MAPLE SYRUP 01.07 06 03 00 NUTS

01.07 06 99 00 OTHER SPECIAL PRODUCTS—Include here other special products emphasized in instruction which are not listed above. (Specify.)

01.07 99 00 00 Other Forestry—Include here other organized subject matter and activities emphasized in forestry which ase not listed above. (Specify.)

01.99 00 00 00 OTHER AGRICULTURE

Include here other organized subject matter and experiences emphasized in agriculture which are not listed or classifiable in one of the above categories. (Specify.)

ART

02.00 00 00 00

Art is comprised of the organized body of subject matter or related courses involving primarily visual, tactile, and kinesthetic expression. Included in instruction are the two-dimensional forms such as drawing, painting, or printmaking; the three-dimensional forms such as sculpture or pottery; other spatial concepts such as architecture and design

01.06 08 00 00

01.06 99 00 00

02—ART—(Continued)

for the performing arts; and the history and theory of art. Emphasis is placed upon the esthetic and

creative factors of visual forms.

The Ad Hoc Committee for Art applied the following rationale to the selection of substantive content for placement in the Art subject-matter area: (1) the content was determined by consensus of the committee to be appropriate to art in terms of origin and meaning; (2) subject-matter items could be defined in brief form using only salient descriptive elements; and (3) the various aspects of organized subject matter classified under Art were identifiable by titles which the ad hoc committee considered to be most commonly used in current

Opportunities are frequently provided outside of regular classtime for pupils to pursue the development of interests, skills, and knowledge in selected aspects of art as an extension of their classwork. These activities, when approved by appropriate school authorities and directed or supervised by qualified adults, are referred to as cocurricular activities. They may be designed for the participation of pupils as individuals or in groups. A variety of such activities is identified and classified categorically under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are discussed more fully in this chapter beginning on page

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71-78, and the items classified in the X 32 00. Series-School Services Supporting Instruction on pages 90-96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included in this subject-matter area are the items of information which identify various subjects in

the art areas.

02.01 00 00 00 ART HISTORY AND THEORY

The study of the visual arts from a conceptual point of view including its history, its relation to social and psychological conditions, to philosophic positions, and to other humanistic disciplines. Art concepts are treated under a variety of descriptive titles such as Art History, Art Theory, Humanities, and other art history and theory.

02.01 01 00 00

Art History—The study of the history and evolution of art forms and symbols and their relationship to other historical data, usually presented in chronological or cultural order. Specific periods of art, including contemporary, may be isolated in specialized courses. The focus might be sensitivity to the inherent esthetic merits of a work of art as well as its historical significance.

02.01 02 00 00

Art Theory—The study of those aspects of philosophy, psychology, sociology, and other disciplines which relate to art topics. Esthetics, criticism, creativity, perception, cultural anthropology, and other relevant social or behavioral studies may be included. This subject matter also applies to the professional education of art teachers and professional museum personnel.

02.01 03 00 00 Humanities—The study of selected aspects of art presented in relation to visual and performing arts, literature, and philosophy in their social and historical concepts. Sometimes aspects of the various subjectmatter areas are taught separately but relatedly; in other instances, these aspects of subject matter are fused or integrated with selected content from art forming the core. (See also 05.03 69 00 00 Humanities under ENGLISH LANGUAGE ARTS, 06.03 00 00 00 Humanities under FOREIGN LANGUAGES, 12.06 00 00 00 Humanities under MUSIC, and 15.09 00 00 00 Humanities under SOCIAL SCIENCES/ SOCIAL STUDIES.)

02.01 99 00 00

Other Art History and Theory—Include here other organized subject matter em-phasized in art history and theory which is not listed above. (Specify.)

02.02 00 00 00 ART STUDIO

A space designed to provide learning situations involving participation by pupils in the visual arts, emphasizing their expressive and creative aspects and the development of necessary related skills and understanding. Esthetic merit, rather than technical virtuosity, receives primary emphasis. Opportunities for studio experiences are provided under descriptive titles such as Basic Design, Commercial Design, Environmental Design, Crafts, Drawing, Painting, Photography, Printmaking, Sculpture, and other art studio.

02.02 01 00 00

Basic Design—A study of the relationships of two- and three-dimensional visual forms, somewhat comparable to the study of the structure of verbal language. The elements and principles affecting visual expression are central. Design is treated under a variety of descriptive course titles.

02.02 01 01 00

Two-dimensional Design—The study of the relationships of line, shape, color, movement, and other visual elements when applied to a plane.

02.02 01 02 00

THREE-DIMENSIONAL DESIGN—The study of the structural relationships of form, texture, space, movement, light modulation, and other visual elements as they apply to three-dimensional configura-

02.02 02 00 00

Commercial Design-Studies directed toward specific applications of design princi-ples. Commerical design is organized and treated under a variety of titles such as Advertising and Graphic Design, Design for the Performing Arts, Fashion Design, Technical and Medical Illustration, and other commercial design. (Included as 04.00 00 51 00 Commercial Design under DISTRIBUTIVE EDUCATION)

02.02 02 01 00

ADVERTISING AND GRAPHIC DESIGN—The development of skills necessary in the preparation of visual material suitable for quantity reproduction. Lettering, typography, layout, and illustration are included. Negotiation, bidding, and cost estimating may also be taught.

02.02 02 02 00

DESIGN FOR THE PERFORMING ARTS—The study of design and production of sets,

| 02 ART—(C | ontinued) | | factors are emphasized. Consideration of |
|----------------|---|----------------------------------|---|
| 02.02 02 03 00 | costumes, props, and other accounterments of the performing arts. Work with theatrical productions is essential. FASHION DESIGN—The study and devel- | | function and technique, while important, is subordinated to these activities. Craft activities are designed under a variety of descriptive titles such as Metalwork and Jewelry, Pottery and Ceramics, Textiles, |
| 02.02 02 03 00 | opment of skills and processes involved in the design of apparel. Textile and clothing industries may be taught. | 02.02 04 01 00 | and other crafts. METALWORK AND JEWELRY—Study and |
| 02.02 02 04 00 | TECHNICAL AND MEDICAL ILLUSTRATION —The development and use of skills and processes involved in creating illustra- | | activities which involve the techniques of metalwork and jewelry such as brazing, soldering, forging, casting, finishing, and other techniques. |
| | tions relating to industrial, scientific, or medical subjects. Study in science, industrial technology, and/or associated medical areas is frequently included in the development of knowledge and skills | 02.02 04 02 00 | POTTERY AND CERAMICS—Study and activities concerned with the forming, firing, glazing, and other finishing, processes of ceramic ware. Clay composition and glaze chemistry may be taught. |
| 02.02 02 99 00 | necessitating advanced study. Other Commercial Design—Include here other organized subject matter and experiences emphasized in commercial design which are not listed above. (Specify.) | 02.02 04 03 00 | TEXTILES—Activities in which the central concern is weaving, printing, and creating new forms in fiber and other material. The utilization of the product is not normally an important element. |
| 02.02 03 00 00 | Environmental Design—The develop- ment of environmental sensitivity and the application of principles of spatial and | 02.02 04 99 00 | OTHER CRAFTS—Include here other crafts which are emphasized for study, e.g., wood, leather, enameled metal, glass, and other materials. (Specify.) |
| | structural design to the problems of creating structural elements and to products that man creates to adapt, alter, and control his surroundings. | 02.02 05 00 00 | 그 가장, 그를 가는 가장을 하면 되었다. 하는 아이를 하는 것들이 하는 것이 없는 것이 없는 것이 없는 것이다. 그렇게 되었다. |
| 02.02 03 01 00 | ARCHITECTURAL DESIGN—The study of organization and enclosure of space for functional and esthetic purposes. The relationships of color, texture, volume, | | nonchromatic. Drawing experiences may emphasize a particular medium or special- ized subject matter. |
| | space, shape, and site are emphasized. Specialized sequences and related studies in engineering and technology are essential. | 02.02 06 00 00 | Painting—The process of producing work in a variety of media such as oils, water color, tempera, casein, synthetics, and mixed media. Painting experiences may emphasize a particular medium or special- |
| 02.02 03 02 00 | INDUSTRIAL AND PRODUCT DESIGN—The study of, with central emphasis on, the integration of esthetic quality with industrial technology. The nature of materials and industrial processes, the functional characteristics of the product, consumer psychology, and rudimentary engineering skills are included in planning and design. | 02.02 07 00 00 | ized subject matter. Photography and Related Media—The process of producing work in photographic and related media emphasizing, in addition to technical aspects, the artistic elements which distinguish this work from similar offerings in journalism, science, or vocational education. Specialized studies may |
| 02.02 03 03 00 | INTERIOR DESIGN—The planning of color, form, space, and textural elements for interiors, emphasizing esthetic consideration. The selection and relationship of furniture, furnishings, communications, traffic, and utilities are also included. The close relationship to the architecture and landscape is implicit. | 02.02 08 00 00 | be offered in still or motion pictures, television, and other electronic equipment. Printmaking—The process of printmaking, including intaglio, relief, planographic, and stencil operations. Etching, engraving, lithography, wood and linoleum cuts, silk screen, calligraphy, and allied techniques are included in this category. These ac- |
| 02.02 03 04 00 | LANDSCAPE ARCHITECTURE—The application of design principles to the functional and esthetic problems of altering, adapting, and controlling the external environment. Supporting studies in related areas are necessary, e.g., horticulture, civil engineering, finance, | 02.02 09 00 00 | tivities do not include industrial printing. Sculpture—The conception and creation of expressive forms by means of modeling, forming, carving, and constructing. Media may include clay, wood, stone, metal, wax, plaster, synthetics, found objects, and others. |
| 02.02 03 05 00 | sociology, and social psychology. URBAN PLANNING—Study involving the planning and design of cities and towns, or portions thereof, emphasizing the | 02.02 99 00 00 02.99 00 00 00 | Other Art Studio—Include here other techniques or media emphasized in art studio which are not listed above. (Specify.) OTHER ART |
| 02.02 03 99 00 | integration of functional and esthetic aspects of the urban environment. OTHER ENVIRONMENTAL DESIGN—In- | V=1.77 00 00 00 | Include here other organized subject matter and experiences emphasized in art which are not listed or classifiable under one of the major categories listed above, |
| | clude here other organized subject matter and experiences emphasized in environ- mental design which are not listed above. (Specify.) | | including emerging art concepts. (Specify.) BUSINESS |
| 02.02 04 00 00 | Crafts—Activities for pupils which are planned to emphasize the conception and | ъ . | 03.00 00 00 00 |
| | production of "objects designed for use," Design quality and esthetic and creative | | cludes the body of related subject lated courses, and planned learning |

experiences which are designed to develop in pupils the attitudes, knowledge, skills, and understanding concerned with business principles and practices having applications for personal use and/or activities in the business world. Business also includes a wide variety of aspects of general education, e.g., subject matter from other subject areas such as English (language arts), social sciences/social studies, and mathematics.

The Ad hoc Committee for Business applied the following criteria to the selection of substantive content for placement in the Business subject-matter area: (1) the content was determined by consensus of the committee to be unique to business historically and in origin; (2) subject-matter items could be defined in brief form using only salient descriptive elements; and (3) the various aspects of organized subject matter classified under Business were identifiable by titles which were considered to be most

commonly used in current practice.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of business as an integral part of the instructional program. As an example, the Future Business Leaders of America provides additional opportunities to develop leadership, other qualities, and an understanding of the world of work in business. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. They may be designed for participation of pupils as individuals or in groups, and are an integral part of classwork. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the Future Business Leaders of America is identified for reporting purposes and further described under Cocurricular Activities as Item 20.01 10 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11

and in figure 2 on page 13.

Included under this heading are the items of information which identify various subjects in business.

03.01 00 00 00 ACCOUNTING

Organized subject matter and learning activities which are designed to provide opportunities for pupils to develop knowledge, understanding, and skills concerned with the principles and theory of accounting, and accounting practices. Different aspects of accounting are organized for instruction under various descriptive titles, such as Accounting Principles, Accounting Systems, Advanced Accounting, Cost Accounting, Data Processing Accounting,

Governmental and Institution Accounting, Income Tax Accounting, Intermediate Accounting, Payroll Accounting, Secretarial Accounting, and other accounting. (Included as 04.00 00 85 00 Accounting under DISTRIBUTIVE EDUCATION) (See also the category 14.01 00 00 00 Accounting and Computing Occupations and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.01 01 00 00

Accounting Principles—Subject matter and learning experiences which are designed to introduce pupils to the general principles of accounting. Usually included for study are theory and practice of accounting and their application to, for example, proprietorships, partnerships, and corporations; problems in recording transactions; payroll and tax transaction procedures; procedures in depreciation and accrual accounting; and preparation and analysis of financial statements. (See also the category 14.01 00 00 00 Accounting and Computing Occupations under OFFICE OCCUPATIONS.)

03.01 02 00 00

Accounting Systems—An organization of subject matter and learning experiences designed to prepare pupils to analyze accounting systems and procedures and to devise and recommend improvements for existing systems. Usually included is the study of automatic data processing and its application to the accounting system. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations and 14.02 00 00 00 Business Data Processing Systems Occupations under OFFICE OCCUPATIONS.)

03.01 03 00 00

Advanced Accounting—An organization of subject matter and learning activities concerned with the refinement and expansion of accounting theory and procedures with emphasis being placed on a variety of special problems dealing with such considerations as partnerships, proprietorships, and corporations, and installments, consignments, budgeting, depreciation and depletion, governmental accounting, consolidated statements, taxes, liquidation, receiverships, and actuarial science. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.01 04 00 00

Auditing—The study of the concepts, objectives, and ethics applicable to auditing (the examination of accounts), including audit plans, internal control, sampling, and specific auditing procedures concerned with such items as cash, investments, receivables, inventories, plant, equipment, expenses, and writing an audit report. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.01 05 00 00

Cost Accounting—The study of procedures and practices involved in accounting for materials, labor, overhead, and burden under job-order, including various systems of cost accounting, accounting related to sales, and accounting as a managerial tool of control. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations, 14.02 00 00 00 Business Data Processing Systems Occupations, and 14.08 00 00



00 Supervisory and Administrative Management Occupations under OFFICE OCCUPA-TIONS.) C.P.A. Review-The study of accounting 03.01 06 00 00 standards, concepts, and principles, and their applications in practice. Special attention is given to the AICPA examinations. 03.01 07 00 00 Data Processing Accounting-Subject matter and learning activities which involve the use of modern data processing pro-cedures and equipment in financial ac-tivities, with special emphasis being placed on systems, including the use of punchcard equipment, common-language devices, accounting machines, and computers. In practice, special applications are made to inventory control, payroll procedures, customer accounts, billing procedures, and storage and retrieval of information. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations and 14.02 00 00 00 Business Data Processing Systems Occupations under OFFICE OCCUPATIONS.) Governmental and Institutional Ac-03.01 08 00 00 counting—The study of accounting procedures and principles as applied to fund accounting for governmental units, accounting for nonprofit institutions, and budget control in these institutions. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.) Intermediate Accounting—Usually, an organization of subject matter and learning experiences which are designed to provide 03.01 09 00 00 (1) a systematic review of fundamental accounting processes, and (2) applications of accounting principles to major accounting problems such as assets, liabilities, working capital, the balance sheet, the income statement the analysis of states income statement, the analysis of statements, and stockholders' equity. (See also the category 14.01 00 00 00 Accounting and Computing Occupations under OFFICE OCCUPATIONS.) 03.01 10 00 00 Managerial Accounting—The study of accounting analysis information and techniques which are utilized by management in its decisionmaking responsibilities and activities. (See also the category 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS. 03.01 11 00 00 Payroll Accounting-A combination of subject matter and learning activities which apply to payroll accounting procedures and control, including the study of Federal and State laws and their interpretations and the preparation of reports required by govern-mental agencies. In practice, payroll ac-counting is frequently a part of bookkeeping or office practice courses, and includes recording wages, computing payrolls and payroll deductions, and recording payroll entries. (See also the category 14.01 00 00 00 Accounting and computing Occupations under OFFICE OCCUPATIONS.)

Secretarial Accounting—A study of accounting and bookkeeping fundamentals designed primarily for stenographers and

secretaries. Included for study are various

03.01 12 00 00

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03 BUSINESS—(Continued)

accounting/bookkeeping activities, i.e., single-and double-entry bookkeeping, payroll procedures, petty cash, records for merchandising, records for various professional services, income statements, taxes, and other financial reports. (See also 14.08 01 00 00 Administrative Assistants under OFFICE OCCUPATIONS.)

03.01 13 00 00 Tax Accounting-The study of accounting principles, procedures, and regulations applicable to the maintenance of records and the preparation and filing of income tax returns for individuals, partnerships, corporations, and other types of organizations. Sometimes State and local tax laws and procedures are included in addition to the study and interpretation of Federal income tax legislation. (See also the category 14.01 00 00 00 Accounting and Computing Occupations under OFFICE OCCUPATIONS.)

03.01 99 00 00

Other Accounting—Include here other organized subject matter and activities emphasized in accounting which are not classified above. (Specify.)

03.02 00 00 00

ADVERTISING AND SALES PROMO-TION

(For definition see 04.00 00 44 00 Advertising and Sales Promotion under DISTRIBUTIVE EDUCATION.)

03.02 01 00 00

Advertising Principles—(For definition see 04.00 00 45 00 Advertising Principles under DISTRIBUTIVE EDUCATION.)

03.02 02 00 00

Advertising Copywriting—(For definition see 04.00 00 47 00 Advertising Copywriting under DISTRIBUTIVE EDUCATION.)

03.02 03 00 00

Advertising Media and Campaigns-(For definition see 04.00 00 46 00 Advertising Campaigns and 04.00 00 49 00 Advertising Media under DISTRIBUTIVE EDUCA-TION.)

03.02 04 00 00

Direct-Mail Advertising—(For definition see 04.00 00 52 00 Direct-Mail Advertising under DISTRIBUTIVE EDUCATION.)

03.02 99 00 00

Other Advertising and Sales Promotion Include here other organized subject matter and activities emphasized in advertising and sales promotion which are not classified under DISTRIBUTIVE EDUCATION. (Specify.)

03.03 00 00 00

BOOKKEEPING

The study of the fundamental principles involved in the preparation and mainte-nance of financial records concerned with business management and operations. Emphasis is placed on various records such as budgets, payrolls, and financial statements. In practice, pupils usually are provided opportunities to gain limited experience in the use of selected office machines. Subject matter and activities in bookkeeping ject matter and activities in bookkeeping are treated under various descriptive titles such as Bookkeeping, First Course; Bookkeeping, Second Course; Bookkeeping, Third Course; Bookkeeping, Fourth Course; Machine Bookkeeping; Payroll Record Keeping; Record Keeping; and other bookkeeping; bookkeeping.

03.03 01 00 00

Bookkeeping, First Course-A combination of subject matter and learning experiences concerned with the elementary principles of bookkeeping, including some theory of accounting. In practice, various book-keeping situations are emphasized in instruction, e.g., single-and double-entry

bookkeeping; methods and principles of recording business transactions; the preparation of various documents used in recording income, expenses, acquisition of assets, incurrance of liabilities, and changes in equity; and the preparation and some interpretation of financial statements. (See also 14.01 02 00 00 Bookkeepers under OFFICE OCCUPATIONS.)

03.03 02 00 00

Bookkeeping, Second Course-Includes repeating the cycle of the first course, expanding the subject matter and enlarging the degree of difficulty. In addition, the pupils are introduced to the simplest forms of partnership and corporation accounting. Actual books, based on simulated companies, transactions, and situations, are used in the learning process. (See also 14.01 02 00 00 Bookkeepers under OFFICE OCCUPATIONS.)

03.03 03 00 00

Bookkeeping, Third Course—Organized learning experiences which provide for more extensive treatment of the activities carried on in the first two courses or cycles. New elements on control accounting, subsidiary ledger work, and inventory accounting are usually introduced. (See also 14.01 02 00 00 Bookkeepers under OFFICE OCCUPATIONS.)

03.03 04 00 00

Bookkeeping, Fourth Course-Usually, the terminal course in bookkeeping. In practice, provision is frequently made for repeating the cycles of the first three courses. More comprehensive treatment of specialized types of records, introduction to cost accounting systems, and often relationships simulated activities in data processing affecting bookkeeping are introduced. Increased emphasis is also placed on financial control through bookkeeping and report construction. (See also 14.01 02 00 00 Bookkeeping under OFFICE OCCUPATIONS) keeping under OFFICE OCCUPATIONS.)

03.03 05 00 00

Machine Bookkeeping—An organization of subject matter and directed activities, often designed as a unit in a bookkeeping or an accounting course, to provide opportunities for pupils to gain experience in the use of bookkeeping machines, usually posting accounts receivable and other control account data. (See also 14.01 04 00 00 Machine Operators: Billing, Bookkeeping, and Computing under OFFICE OCCUPATIONS) TIONS.)

03.03 06 00 00 Payroll Record Keeping-A combination of subject matter and practice activities which are concerned with (1) the study of Federal and State laws that affect payroll, (2) the study of basic payroll forms and records and their uses, (3) practice in calculating hours worked by employees, overtime, gross and net pay, and deductions, and (4) practice in preparing records and the required government reports from the records. (See also the category 14.01 00 00 00 Accounting and Computing Occupations under OFFICE OCCUPA-TIONS.)

03.03 07 00 00

Record Keeping-Subject matter and learning experiences that deal with financial records less technical than those provided in the first and second courses in bookkeeping and which are frequently considered to be on a clerical level. Emphasis is placed on simple, commonly used financial records which often are concerned with personal,

family, club, and small business needs. Sometimes the subject matter and experiences serve as a background for enrollees in the first and second courses in bookkeeping as well as a substitute for bookkeeping for those not desiring or not qualified to take technical bookkeeping courses.

03.03 99 00 00

Other Bookkeeping-Include here other organized subject matter and activities emphasized in bookkeeping which are not listed above. (Specify.)

03.04 00 00 00

BUDGET CONTROL

The study of the budgetary process in business, e.g., planning for profitable operations, including systems of cost and profit analysis. The primary emphasis is on planning which will expedite the achievement of specific budget-control objectives (See also the category 14.08 00 00 00 Supervisory and Administrative Management Occupations, under OFFICE OCCUPA-

03.05 00 00 00

BUSINESS ARITHMETIC OR MATH-**EMATICS**

(For definition see 11.05 01 00 00 Business Arithmetic under MATHEMATICS.)

03.06 00 00 00

BUSINESS COMMUNICATIONS

The study of oral and written English as they apply to business. The emphasis is on the type of correct and proper English needed by the secretary, stenographer, and clerk, and includes correctness and clarity in style and vocabulary in business correspondence, memorandums, formal and informal reports, and writing minutes. (See also 04.00 00 88 00 Communications for Distribution under DISTRIBUTIVE for Distribution under DISTRIBUTIVE EDUCATION.) (See also the categories 14.04 00 00 00 Information Communication Occupations, 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations, 14.08 00 00 00 Supervisory and Administrative Management Occupations, and 14.09 00 00 00 Typing and Related Occupations under OFFICE OCCUPATIONS.)

03.06 01 00 00

Business Correspondence—Organized subject matter and activities which are designed to emphasize the writing of business letters, reports, and memorandums. In practice, subject matter and activities frequently include emphasis on both oral and written English which are used in business.

03.06 02 00 00

Report Writing—Learning experiences concerned with the process of investigating and presenting business problems and their solutions, usually including the study of methods of collecting, organizing, and interpreting data, with emphasis upon the elements involved in writing the final report. (Included as 04.00 00 97 00 Report Writing under DISTRIBUTIVE EDUCATION) (See also 14.04 02 00 00 Correspondence Clerks under OFFICE OCCUPATIONS.)

03.06 03 00 00

Spelling and Vocabulary Building-The study of words, their definitions, pronuncia-tion, and applications. The activities normally include taking stock of words one knows, and learning to spell new words. The subject matter includes words for general vocabulary and words for the specialized business vocabulary.

03.06 99 00 00

Other Business Communications-Include here other organized subject matter



and activities emphasized in business communications which are not listed above. (Specify.)

03.07 00 00 00 BUS

BUSINESS ETHICS

The study of morality and its background as a factor determining personal conduct and the consideration of personal and social problems from an ethical point of view. Usually included is the study of society and its influence on policies involved in management, and customer, employer, competitor, and governmental relationships. (This subject matter is also emphasized in various categories under 14.00 00 00 OFFICE OCCUPATIONS.)

03.08 00 00 00

BUSINESS FINANCE

An organization of subject matter designed to provide opportunities for pupils to gain knowledge and understanding of the principles of financial management and control as applied to business formation, expansion, reorganization, and liquidation. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OF-FICE OCCUPATIONS.)

03.09 00 00 00

BUSINESS LAW

The study of the principles of law as they relate to business transactions and to the individual and his job responsibilities—the rights of individuals and businesses and other individuals and businesses with whom they deal. Usually, emphases are placed on considerations such as contracts, insurance, loans, sales, negotiable instruments, partnerships, corporations, principal and agent, and property. (Included as 04.10 03 00 00 Business Law under DISTRIBUTIVE EDUCATION) (See also the categories 14.01 00 00 00 Accounting and Computing Occupations, 14.05 00 00 00 Materials Support Occupations: transporting, storing, and recording, and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.10 00 00 00

BUSINESS MACHINES

A combination of subject matter and guided experiences concerned with developing in pupils the knowledge, understanding, and varying degrees of skills related to a variety of machines used in business offices. (See also 14.01 04 00 00 Machine Operators: Billing, Bookkeeping, and Computing, and the category 14.03 00 00 Filing, Office Machines, and General Office Clerical Occupations under OFFICE OCCUPATIONS.) (See also specialized subject listings in the BUSINESS subjectmatter area.)

03.10 01 00 00

Business Machines, First Course—Instruction and practice activities which are designed to provide pupils with an introduction to computing machines and opportunities to build acquaintanceship-level skills on adding machines (ten-key and full-key) and on calculating machines (key-driven, rotary, and printing). (See also 14.01 04 00 00 Machine Operators: Billing, Bookkeeping, and Computing under OFFICE OCCUPATIONS.)

03.10 02 00 00

Business Machines, Second Course—An extension of the learning and practice ac-

tivities carried on in Business Machines, First Course with emphasis on developing job skills on computing machines—adding machines and calculators—and specific applications to business documents and procedures. (See also 14.01 04 00 00 Machine Operators: Billing, Bookkeeping, and Computing under OFFICE OCCUPATIONS.)

03.10 03 00 00

Calculating and Listing Machines— (For definition see 14.01 04 00 00 Machine Operations: Billing, Bookkeeping, and Computing under OFFICE OCCUPATIONS.)

03.10 04 00 00

Duplicating Machines—Subject matter and practice activities, frequently organized as a unit in office practice, designed to provide skills development in the use of various types of reproducing machines, e.g., spirit, stencil, and photocopy duplicating machines. (See also 14.03 01 00 00 00 Duplicating Machine Operators under OF-FICE OCCUPATIONS.)

03.10 99 00 00

Other Business Machines and Appliances—Include here other subject matter and activities emphasized in business machines and appliances which are not listed above. (Specify.)

03.11 00 00 00

BUSINESS PSYCHOLOGY

The study of superior-subordinate behavior interactions and the influence of group attitudes as they relate to the specific work environments. Subject matter usually includes interpersonal relationships between peers and superiors, personality acknowledgment, requirements for morale, personal efficiency, and leadership by example. (See also 04.10 12 00 00 Human Relations under DISTRIBUTIVE EDUCATION.) (See also the category 14.06 00 00 00 Personnel, Training, and Related Occupations under OFFICE OCCUPATIONS.)

03.12 00 00 00

BUSINESS STATISTICS

The study of the elementary aspects of statistics and their applications to business, e.g., tables, charts, ratios, percentages, averages, statistical data, realities, dispersion, skewness, time series, trends, indexes, forecasting, and correlations. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations, 14.02 00 00 00 Business Data Processing Systems Occupations, 14.05 00 00 00 Materials Support Occupations: transporting, storing, and recording, and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.13 00 00 00

OFFICE WORK EXPERIENCE

Planned educational activities designed to permit application, in a realistic situation, of background and skill knowledge previously learned through: cooperative programs with an approved teacher-coordinator in the business community; directed experience programs providing systematic supervision of the pupil learning situation in or out of school; or simulated programs providing realistic classroom work experience directed by a qualified teacher.

03.14 00 00 00

CLERICAL PRACTICE

Learning situations involving laboratory and discussion experiences which are designed to provide opportunities for pupils, not interested in or not pursuing secretarial or bookkeeping knowledge and skills, to develop knowledge and skills in clerical operations. Emphasis is on various ac-

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tivities, e.g., filing, record keeping, some-times advanced typing, telephone and telegraph usage, mailroom activities, shipping procedures, personality development, machine operation, and job-application procedures. (See also the category 14.03 00 00 00 Filing, Office Machines, and General Office Clerical Occupations under OFFICE OCCUPATIONS.)

CONSUMER EDUCATION 03.15 00 00 00

(For definition see 15.05 00 00 00 Consumer Education under SOCIAL SCI-ENCES/SOCIAL STUDIES.)

03.16 00 00 00 CREDIT AND COLLECTIONS

(For definition see 04.00 00 28 00 Credit and Collections under DISTRIBU-TIVE EDUCATION.)

DATA PROCESSING AND COMPUTER 03.17 00 00 00 OPERATION

Learning activities concerned with surveying and studying the rapidly growing need for and uses of electronic data processing systems in the business office, and the implications for management, including the operations. (See also the category 14.02 00 00 00 Business Data Processing Systems Occupations under OFFICE OCCUPATIONS.) analysis and study of concepts of computer

03.17 01 00 00

Introduction to Data Processing-Instruction which is designed to provide opportunities for pupils to become acquainted with developments in data processing—concepts, procedures, understanding, and processing, electro-mechanical or electronic machines. Usually, various methods such as manual, machine, punched-card, and electronic are studied. Simple applications are made to payrolls, inventory, customer records, and billing. This is sometimes a separate course when equipment is available, or it is often a part of an office practice or bookkeeping course when equipment is not available. (See also the category 14.02 00 00 00 Business Data Processing Systems Occupations under OFFICE OCCUPATIONS.)

03.17 02 00 00

Data Processing Systems—The study of data systems and procedures such as the analysis, design, and control of manage-ment information and data communications ment information and data communications systems. Other aspects of data processing systems frequently emphasized are: (1) the economics of manual, electromechanical, and electronic data processing; (2) the advantages and limitations of computers, communication, and information retrieval systems as tools for management control; (3) feasibility study techniques, evaluation equipment, and conversion techniques; and (4) installation, organization, and operation of a computer facility. (See also the category 14.02 00 00 00 Business Data Processing Systems Occupations under OFFICE OC-CUPATIONS.)

03.17 03 00 00

Computer - Oriented Mathematics (Data Processing Mathematics)-Instruction which is concerned with a practical foundation in numerical concepts needed for understanding accounting and machine processes. Subject matter and learning experiences usually are designed to provide knowledge of rotation, number systems, number systems with an arbitrary base, basic algebra, linear equations, fixed floating point numbers, elements of Boolian algebra, methods of numerical computation, and use of the computer for numerical computation. (See also 11.08 00 00 00 Computer Mathematics under MATHEMATICS.)

03.17 04 00 00

Computer Programming—Learning activities designed to provide practice in flow charting and writing instructions in com-puter language for the direction of computer operation in the solution of a problem. Usually, subject matter includes program preparation steps, types of instruction, coding, flow charting and block diagramming, number systems, address systems, computer word format, housekeeping, running, and error detection. (See also 14.02 03 00 00 Programmers under OFFICE OCCUPATIONS.) (Included as 16.04 01 00 00 Computer Programmers TECHNICAL Computer Programmer under TECHNICAL EDUCATION)

03.17 05 00 00

Computer Operation: Introduction-The study of the principles of computer operation with emphasis on components and functions of a computer system, input and functions of a computer system, input-output media, central processing units, internal processing procedures, console and inquiring functions, and programming ele-ments. Instruction is usually designed to enable pupils to gain "in-depth" knowledge of computer applications and characteris-tics. (See also 14.02 01 00 00 Computer and Console Operators under OFFICE OC-CUPATIONS.)

03.17 06 00 00

Processing Equipment Operation-Learning experiences concerned with the operation of electrical/mechanical equipoperation of electrical/mechanical equipment, e.g., keypunch machines, accounting machines, collators, key sorters, and printer—either independently or in support of and/or auxiliary to the electronic data computer. (See also 14.02 02 00 00 Peripheral Equipment Operators under OFFICE OCCUPATIONS.)

03.17 06 01 00

Punchcard Data Processing—An organization of subject matter and activities which is designed to provide opportunities for pupils to gain knowlopportunities for pupils to gain knowledge and experiences concerned with the use of punched card equipment, including basic machine operation, board wiring, and typical applications. (See also 14.02 02 01 00 Keypunch and Coding Equipment Operators under OFFICE OCCUPATIONS.)

03.17 06 02 00

TABULATING EQUIPMENT OPERATION— Organized learning experiences designed to provide opportunities for pupils to gain knowledge and understanding about the punched-card system of data processing, including all peripheral equipment. Subject matter usually includes the punched card, machine functions, machine components, keypunch and verifier, interpreter, sorter, reproducer, collator, accounting ma-chine-tabulator, calculator, basic chine-tabulator, calculator, housekeeping procedures, equipment used as computer support, and accounting applications. (See also 14.02 02 00 00 Peripheral Equipment Operators under OFFICE OCCUPATIONS) TIONS.)

03.17 06 03 00

TABULATING MACHINE WIRING-Instruction which is concerned with the wiring of control panels that direct the operation of punched-card equipment. Subject matter usually includes ma-chine logic, principles of control panel

BUSINESS—(Continued) wiring, wiring fundamentals, and wiring practice. (See also 14.02 02 00 00 Peripheral Equipment Operators under OFFICE OCCUPATIONS.) OTHER PROCESSING EQUIPMENT OPERA-03.17 06 99 00 TION-Include here other subject matter and experiences emphasized in processing equipment operation not listed above. (Specify.) Other Data Processing and Computer Operation—Include here other subject matter and activities emphasized in data 03.17 99 00 00 processing and computer operation which are not listed above, e.g., tape library systems, job scheduling, and job control. (See also 14.02 99 00 00 Other Business Data Processing Systems Occupations under OFFICE OCCUPATIONS.) (Specify.) **ECONOMICS** 03.18 00 00 00 (For definition see 15.06 00 00 00 Eco-omics under SOCIAL SCIENCES/ nomics under SOC SOCIAL STUDIES.) Consumer Economics—(For definition see 15.06 03 00 00 Consumer Economics under SOCIAL SCIENCES/SOCIAL 03.18 01 00 00 STUDIES.) Labor Economics—(For definition see 15.06 08 00 00 Resource Economics under SOCIAL SCIENCES/SOCIAL STUD-03.18 02 00 00 Money and Banking—(For definition see 15.06 05 00 00 Money and Banking under SOCIAL SCIENCES/SOCIAL STUD-03.18 03 00 00 03.18 04 00 00 Principles of Economics—(For definition see 15.06 07 00 00 Principles of Economics under SOCIAL SCIENCES/SOCIAL STUDIES.) Other Economics-Include here other 03.18 99 00 00 subject matter emphasized in economics which is not listed above or classified under SOCIAL SCIENCES/SOCIAL STUD-IES. (Specify.) 03.19 00 00 00 ECONOMIC GEOGRAPHY (For definition see 15.07 02 00 00 Human Geography and 15.07 04 00 00 Regional Geography under SOCIAL SCIENCES/SOCIAL STUDIES.) 03.20 00 00 00 EXPLORATORY BUSINESS An organization of subject matter and activities designed to assist the pupil in determining the extent of his interest in and aptitude for activities related to business employment. Emphasis is usually on limited skill objectives in shorthand, selling, book-keeping and clerical duties.

Learning experiences which provide

opportunities for pupils to study the principles of indexing and the various methods

of filing used in business and other institutions, including actual practice in indexing and filing. (See also 14.03 02 00 00 File Clerks under OFFICE OCCUPATIONS.)

Subject matter and learning experiences which are concerned with the extension

and more advanced study of the elementary aspects of indexing and filing described in Filing. In practice, emphasis is frequently on a wide range of study and experiences

such as filing systems and their management, storage, and retrieval of business

03.22 00 00 00 FILING AND RECORD CONTROL

records, rules of indexing, evaluation of various methods of filing, uses of filing equipment and supplies, automated filing procedures, the operation of an efficient records system, including forms design, and transfer and disposition of records. (See also 14.03 03 00 00 General Office Clerks under OFFICE OCCUPATIONS.)

03.23 00 00 00 GENERAL BUSINESS OR INTRODUCTION TO BUSINESS

Subject matter designed to make available to all pupils an introductory study of business, including (1) an understanding and appreciation of the nature, scope, and functions of the business-economic system in meeting consumer needs and wants; (2) an understanding of economic principles and desirable business practices which should be followed by consumers in the wise handling of their business affairs; and (3) an understanding and appreciation of career opportunities which are to be found in business occupations. This course may have other titles, such as Introduction to Business or Basic Business. The subject matter of this course has value for all pupils as members of the economic community. General Business, providing a higher level of subject matter, is frequently offered in postsecondary instructional programs in business.

03.24 00 00 00 INSURANCE AND RISK

(For definition see 04.13 00 00 00 Insurance and 04.00 00 71 00 Principles of Insurance under DISTRIBUTIVE EDUCATION.)

03.24 01 00 00 Principles of Insurance—(For definition see 04.00 00 71 00 Principles of Insurance under DISTRIBUTIVE EDUCATION.)

03.24 02 00 00 Life Insurance—(For definition see 04.00 00 72 00 Life Insurance under DISTRIB-UTIVE EDUCATION.)

3.24 03 00 00 Property and Casualty Insurance—
(For definition see 04.00 00 73 00 Casualty Insurance and 04.00 00 74 00 Property Insurance under DISTRIBUTIVE EDUCATION.)

03.24 99 00 00 Other Insurance—Include here other organized subject matter emphasized in insurance which is not listed above or classified under DISTRIBUTIVE EDUCATION.) (Specify.)

03.25 00 00 00 INVESTMENTS

An organization of subject matter concerned with the study of sources of capital, various types of securities, methods of financing, principles of investing, policies of investing, and kinds of financial and investment institutions.

03.26 00 00 00 BUSINESS AND MANAGEMENT PRINCIPLES

The study of planning, organizing, and controlling a business, including both the organizational and human aspects, often with emphasis on various theories of management, the purpose of which is to develop in pupils the knowledge and understanding necessary for managing people and functions and making decisions. (See also specific subject-matter categories in the subject-matter areas of BUSINESS and DISTRIBUTIVE EDUCATION.) (See also 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

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03.21 00 00 00 FILING

03.26 01 00 00 Business Principles—An organization of subject matter designed to help pupils gain knowledge and understanding important to starting a small business or becoming a more productive employee. Frequently emphasized are considerations such as (1) organizing, financing, and managing a business, and (2) principles of purchasing, selling, merchandising, recordkeeping, granting credit, and collecting. (See also the categories 14.01 00 00 00 Accounting and Computing Occupations, 14.05 00 00 00 Materials Support Occupations: transporting, storing, and recording, and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.26 02 00 00 Business Organization and Management—An organization of subject matter concerned with a wide range of considerations in the field of managing businesses, including the organizational aspects, managerial problems, financing, labor, government regulations, layout, control of materials, cost control, production and marketing, buying and pricing, and related problems. (See also the category 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.26 03 00 00 Labor - Management Relations—The study of the history and development of the labor movement, including an analysis and interpretation of Federal and State legislation, union contracts, labor negotiation, conciliation, arbitration, and grievance procedures. (See also the categories 14.06 00 00 00 Personnel, Training, and Related Occupations and 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.26 04 00 00 Merchandising Management—(For definition see 04.00 00 29 00 Marketing Management, General under DISTRIBUTIVE EDUCATION.)

03.26 05 00 00 Office Management and Supervision—An organization of subject matter designed for a study of scientific principles of office procedures records, and personnel. Emphasis are placed on a wide range of considerations including organization of the office; layout, selection and use of equipment; psychological problems; planning, selection, and training of personnel; policies and procedures; management of accounting activities; work simplification; office manuals and reports; and data processing functions. (See also the category 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.26 06 00 00 Personnel Management—(For definition see 04.00 00 31 00 Personnel Management under DISTRIBUTIVE EDUCATION.)
(See also the category 14.08 00 00 00 Supervisory and Administrative Management Occupations under OFFICE OCCUPATIONS.)

03.26 07 00 00 Small Business Management—(For definition see 04.00 00 33 00 Small Business Management under DISTRIBUTIVE ED-UCATION.)

03.26 99 00 00 Other Business and Management Principles—Include here other organized subject matter emphasized in business and

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management principles which is not listed above or classified under DISTRIBUTIVE EDUCATION or OFFICE OCCUPATIONS. (Specify.)

03.27 00 00 00 MARKETING

(For definition see 04.00 00 38 00 Marketing Research under DISTRIBUTIVE EDUCATION.)

03.27 01 00 00 Principles of Marketing—(For definition see 04.00 00 10 00 Principles of Marketing under DISTRIBUTIVE EDUCATION.)

03.27 02 00 00 Industrial Marketing—(For definition see 04.00 00 12 00 Industrial Marketing under DISTRIBUTIVE EDUCATION.)

03.27 03 00 00 International Marketing—(For definition see 04.00 00 13 00 International Marketing under DISTRIBUTIVE EDUCATION.)

03.27 99 00 00 Other Marketing—Include here other organized subject matter emphasized in marketing which is not listed above or classified under DISTRIBUTIVE EDUCATION. (Specify.)

03.28 00 00 00 OFFICE PRACTICE

Learning experiences which are usually designed to include (1) a combination of knowledge and skills gained in other business education courses, and (2) increased emphases on solving business problems and simulated experiences of working in the various departments of a business, e.g., purchases, sales, and bookkeeping. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.29 00 00 00 PERSONAL DEVELOPMENT AND HU-MAN RELATIONS

Learning experiences designed for improving self-management and enhancing social and job performance. Emphasis is on improving study and work habits, qualities of leadership, grooming and personal appearance, and the analysis of personality deficiencies and ways of overcoming them.

03.30 00 00 00 PERSONAL FINANCE

Subject matter concerned with the study of everyday personal financial problems including such aspects as budgeting, borrowing, charge accounts, installment buying, insurance, savings, investments, pensions, social security, home ownership, banking, taxes, wills, and estates.

03.31 00 00 00 REAL ESTATE

(For definition see 04.17 00 00 00 Real Estate under DISTRIBUTIVE EDUCATION.)

03.31 01 00 00 Principles of Real Estate—(For definition see 04.00 00 75 00 Real Estate Principles under DISTRIBUTIVE EDUCATION)

03.31 02 00 00 Real Estate Appraisal—(For definition see 04.00 00 79 00 Real Estate Appraisal under DISTRIBUTIVE EDUCATION.)

03.31 03 00 00 Real Estate Finance—(For definition see 04.00 00 80 00 Real Estate Finance under DISTRIBUTIVE EDUCATION.)

03.31 04 00 00 Real Estate Law—(For definition see 04.00 00 78 00 Real Estate Law under DISTRIBUTIVE EDUCATION.)

03.31 05 00 00 Real Estate Management—(For definition see 04.00 00 77 00 Real Estate Management under DISTRIBUTIVE EDUCATION)

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03 BUSINESS—(Continued) Real Estate Sales—(For definition see 04.00 00 81 00 Real Estate Sales under DISTRIBUTIVE EDUCATION.) 03.31 06 00 00 03.31 99 00 00 Other Real Estate-Include here other 03.34.02 00 00 organized subject matter emphasized in real estate which is not listed above or classified under DISTRIBUTIVE EDU-CATION. (Specify.) 03.32 00 00 00 RETAILING (For definition see 04.00 00 15 00 Retailing under DISTRIBUTIVE EDUCA-TION.) Merchandise Information (Product Information)—(For definition see 04.00 00 82 00 Product Information under DISTRIPLIENT EDUCATION) 03.32 01 00 00 03.34 03 00 00 TRIBUTIVE EDUCATION.) Retail Display—(For definition see 04.00 00 54 00 Retail Display under DISTRIBUTIVE EDUCATION.) 03.32 02 00 00 Retail Merchandising (Selling)—(For definition see 04.00 00 23 00 Retail Mer-03.32 03 00 00 chandising under DISTRIBUTIVE EDU-CATION.) Retail Salesmanship (Selling)—(For definition see 04.00 00 64 00 Retail Selling under DISTRIBUTIVE EDUCATION.) 03.32 04 00 00 Retail Store Management—(For definition see 04.00 00 32 00 Retail Store Management under DISTRIBUTIVE EDUCA-03.32 05 00 00 TION.) Other Retailing-Include here other or-03.32 99 00 00 ganized subject matter emphasized in re-tailing which is not listed above or classified under DISTRIBUTIVE EDUCATION. (Specify.) 03.33 00 00 00 SALESMANSHIP PRINCIPLES Planned learning experiences which include a combination of courses and practical experiences concerned with the why, what, how, and when of salesmanshiptechniques which will provide information concerning why man is motivated to make purchases. Selling provides opportunity for people with appropriate traits, enthusiastic interests, and eagerness, to apply themselves. (See also 04.00 00 32 00 Salesmanship under DISTRIBUTIVE ED-UCATION.) 03.33 99 00 00 Other Salesmanship—Include here other organized subject matter emphasized in salesmanship which is not classified in the major categories above or under DIS-TRIBUTIVE EDUCATION. (Specify.) SHORTHAND, STENOGRAPHIC, AND 03.34 00 00 00 SECRETARIAL The study of subject matter and the development of skills concerned with the substitution of symbols for letters, syllables, or words normally written in longhand as a means of achieving rapidity in writing. It also involves the related activities usually associated with transcribing the notes back into the common language through the use of typewriters, and includes the concomitant clerical activities. (See also 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE

pen or pencil. Frequently, high-speed recording is emphasized. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

Personal Use Shorthand—Learning activities which are designed to provide opportunities for pupils to study a highly simplified alphabetic or symbol system of shorthand for personal use and to develop skill, through practice, in using it. In addition, instruction usually includes emphasis on taking notes, e.g., when working with printed materials, or listening to lectures, or when participating in discussions or meetings.

Shorthand Theory, First Course—Study and practice activities concerned with the basic theory of shorthand, including the shorthand alphabet, brief forms, phrasing principles and abbreviating principles, and the development of fluency in writing shorthand outlines. Generally, skills-development objectives include a dictation speed of 60-80 words per minute, and pretranscription techniques such as

dictation speed of 60-80 words per minute a dictation speed of 60-80 words per minute, and pretranscription techniques such as punctuation, spelling, and word usage are emphasized. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations, under OFFICE OCCUPATIONS.)

3.34 04 00 00 Shorthand Theory, Second Course—Study and practice activities concerned with the refinement of basic shorthand principles and the extension of the shorthand vocabulary. The course is usually offered during the second half of the first year and

Study and practice activities concerned with the refinement of basic shorthand principles and the extension of the shorthand vocabulary. The course is usually offered during the second half of the first year and provides emphasis on (1) building skill in taking dictation with a speed objective of 80–100 words per minute writing on new and practiced materials, and (2) the introduction of transcription on the typewriter. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.34 05 00 00 Shorthand Dictation—Study and practice activities—sometimes called Advanced Shorthand—which usually follow the elementary principles course but which may be introduced in Shorthand, First Course. The purpose of the course is to develop shorthand vocabulary; develop speed, accuracy, and shortcuts in taking dictation; and to develop sustained dictation with ordinary corrections and interruptions simulating office conditions. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.34 06 00 00 Shorthand Speed Building—Study and practice activities designed to develop (1) a high level of dictation skill—up to 140 words per minute, and (2) an expert level of transcription skill—up to 50 words per minute. Special dictation involving technical vocabularies such as those of medicine, law, engineering, and science is sometimes included in the course. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.34 07 00 00 Shorthand Transcription—Learning activities which provide for combining the skills of taking dictation on new material and transcribing it rapidly and accurately at the typewriter in mailable form. Considerations are given to special transcription

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03.34 01 00 00

OCCUPATIONS.)

Machine Shorthand—Learning activities

which are designed to provide opportunities for pupils to develop skills in recording

dictation through the use of a machine, as

contrasted with recording dictation with a

BUSINESS—(Continued)

problems such as language structure and style, letter form, transcription shortcuts, vocabulary, punctuation, and general duties of office practice. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.34 08 00 00 Machine

Transcription—Study practice activities concerned with transcrib-ing letters, reports, or other recorded data, using a transcribing (voice reproducing) machine and a typewriter. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.34 09 00 00

Secretarial Practice—Learning activities which include a combination of subject matter and skills development activities designed primarily for pupils who are interested in stenographic or secretarial work. Emphasis is on a variety of knowledge and skills, e.g., refining and improving dictation and transcription skills in an office setting, uses of business machines, personal eti-quette and grooming, writing letters and reports for the executive, planning travel itineraries, filing and records management, advanced typewriting, and office hostessing. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.34 10 00 00

Specialized Shorthand Terminology and Transcription (legal, medical, scientific/technical, other)—A course designed to acquaint the pupil with the specialized terminology (legal, medical, scientific/technical, or other) and special shorthand forms of the selected field through the use of shorthand dictation exercises. The presentation includes transcription practice activities combining the spe-cialized shorthand outlines, spelling, pro-nunciation, and definitions of the most-used specialized terms, with practical application at the typewriter. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OCCUPATIONS.)

03.34 10 01 00

LEGAL MEDICAL

03.34 10 02 00 03.34 10 03 00

SCIENTIFIC/TECHNICAL

03.34 10 99 00

OTHER SPECIALIZED SHORTHAND TERMINOLOGY AND TRANSCRIPTION (LEGAL, MEDICAL, SCIENTIFIC/TECHNICAL, OTHER) -Include here other organized subject matter and activities emphasized in specialized shorthand terminology and transcription which are not classified above. (Specify.)

03.34 11 00 00 Specialized Secretarial Practice (legal, medical, scientific/technical)—A combination of subject matter and skills-development activities in the specialized fields of secretarial practice. Emphasis is on the secretarial duties and procedures peculiar to the field, and on refining and improving dictation and transcription skills in the setting of the legal office, the medical office or hospital, or the scientific or technical office or laboratory. (See also the category 14.07 00 00 00 Stenographic, Secretarial, and Related Occupations under OFFICE OC-CUPATIONS.)

03.34 11 01 00 03.34 11 02 00 LEGAL MEDICAL 03.34 11 03 00

SCIENTIFIC/TECHNICAL

03.34 11 99 00

OTHER SPECIALIZED SECRETARIAL PRAC-TICE (LEGAL, MEDICAL, SCIENTIFIC/TECHNICAL)—Include here other organized subject matter and activities emphasized in specialized secretarial practice which are not listed above. (Specify.)

03.34 99 00 00

Other Shorthand, Stenographic, and Secretarial-Include here other organized subject matter and activities emphasized in shorthand, stenographic, and secretarial which are not listed or classifiable in the above categories. (Specify.)

03.35 00 00 00

TYPEWRITING

The subject matter and learning activities concerned with (1) typewriters and their manipulative parts, and (2) the development of skills in operating typewriters. (See also the category 14.09 00 00 00 Typing and Related Occupations under OFFICE OCCUPATIONS.)

03.35 01 00 00

Personal Typewriting—A combination of subject matter and practice experiences to provide opportunities for pupils to develop knowledge about and skills in typewriting, primarily for personal use. Emphasis is on the attainment of limited skills in typewriting using straight copy, and on composi-tion of original material at the typewriter such as personal correspondence, themes, outlines, and reports.

03.35 02 00 00

Production Typewriting—Planned learning experiences which are concerned with the improvement of basic typewriting techniques and the application of skills to the development of a high degree of speed and accuracy in producing typed materials on an office production basis including letters, envelopes, carde labels, manuscripts and envelopes, cards, labels, manuscripts, and other simulated office jobs. (See also 14.09 02 00 00 Typists under OFFICE OCCUPATIONS.)

03.35 03 00 00

Typewriting, First Course-Subject matter and practice experiences which are designed to assist the pupil in developing the touch system in typewriting, mastery of the keyboard, and reasonable proficiency in typewriting from straight copy. Emphasis is also on the correct operation of the manipulative parts of the typewriter, techniques in making corrections, how to prepare simple tabular matter, following instructions and solving problems on the typewriter, and skill in using grammar, punctuation, and spelling. In practice, attention is given to such aspects of typing as manuscripts, business letters, tables, and documents. Usually, the speed goal ranges from 35–50 words per minute. (See also 14.09 02 00 00 Typists under OFFICE OCCUPATIONS.)

03.35 04 00 00

Typewriting, Second Course—The learning experiences in this course are concerned with the further development of the skills emphasized in Typewriting, First Course, with concentration being on speed and accuracy and production typewriting on a sustained basis. Some attention is given to composition at the machine. In practice, the speed goal ranges from 60-75 words per minute. (See also 14.09 02 00 00 Typists under OFFICE OCCUPATIONS.)

03.35 99 00 00

Other Typewriting-Include here other subject matter and experiences emphasized in typewriting which are not listed above. (Specify.)



03 BUSINESS—(Continued)

03.99 00 00 00 OTHER BUSINESS

Include here other organized subject matter and activities emphasized in business which are not listed or classifiable in one of the above categories. (Specify.)

DISTRIBUTIVE EDUCATION 04.00 00 00 00

Distributive education includes various combinations of subject matter and learning experiences related to the performance of activities that direct the flow of goods and services, including their appropriate utilization, from the producer to the consumer or user. These activities include selling, and such sales-supporting functions as buying, transporting, storing, promoting, financing, marketing research

and management.

Distributive education is comprised of programs of occupational instruction in the field of distribution and marketing. These programs are designed to prepare individuals to enter, or progress or improve competencies in, distributive occupations. Emphasis is on the development of attitudes, skills and understanding related to marketing, merchandising and management. Instruction is offered at the secondary, postsecondary, and adult education levels and is structured to meet the requirements for gainful employment and entrepreneurship at specified occupational levels. Distributive occupations are found in such areas of economic activity as retail and wholesale trade, finance, insurance, real estate, services and service trades, manufacturing, transportation, utilities, and communications.

The Ad Hoc Committee for Distributive Education applied the following rationale to the selection of the items for placement in the Distributive Education area: (1) the items were determined to be appropriate to distributive education in terms of recent vocational education legislation; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various items classified under Distributive Education were identifiable by titles which the ad hoc committee considered to be most appropriate to distributive education.

Opportunities to develop leadership, social and civic awareness, and increased understanding of the world of work in distribution and marketing are provided through the Distributive Education Clubs of America, the youth organization for distributive education pupils. As an integral part of the instructional program, pupils engage in activities that extend their interests, skills and knowledges in selected aspects of distribution and marketing. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are discussed more fully in this chapter beginning on page 242. The Distributive Education Clubs of America may be identified for reporting purposes under Cocurricular Activities as Item 20.01 05 00 00.

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Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78 and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included under this heading are instructional programs in distributive education, classified and identified as Items 04.01 00 00 00 through 04.99 00 00 00. Each of the instructional programs represents various combinations of subject matter. Instructional content may be identified as specific subject-matter or course titles; or, selected aspects of subject matter may be grouped (integrated or correlated). As an example of integrated or correlated subject matter

see 04.00 00 01 00 Distribution I.

In any instructional program the subject matter emphasized may comprise any combination of the items listed (04.00 00 01 00 through 04.00 00 99 00) following 04.99 00 00 00. An illustration might be: instructional program, 04.02 00 00 00 Apparel and Accessories; examples of subject matter might be: 04.00 00 18 00 Buying, 04.00 00 23 00 Retail Merchandising, and 04.00 00 36 00 Advertising Principles.

04.01 00 00 00 ADVERTISING SERVICES

Organized subject matter and learning experiences related to planning, development, placement, and evaluation tasks performed by distributive employees and management personnel in demand creation, and sales promotion activities utilizing displays, merchandising aids, and mass media in such enterprises as advertising agencies, display houses, retail and wholesale establishments, and production industries.

04.02 00 00 00 APPAREL AND ACCESSORIES

Organized subject matter and learning experiences related to the variety of sales, fashion coordination, and sales-supporting tasks performed by distributive employees and management personnel in retail and wholesale establishments primarily engaged in selling clothing of all kinds, including related articles for personal wear and adornment.

04.03 00 00 00 AUTOMOTIVE

Organized subject matter and learning experiences related to the variety of sales and sales-supporting tasks performed by distributive employees and management personnel in retail, wholesale, and service establishments engaged in selling, renting, storing or caring for cars and trucks, and in selling automotive parts, accessories, and equipment.

04.04 00 00 00 FINANCE AND CREDIT

Organized subject matter and learning experiences related to the tasks performed by distributive employees and management personnel in institutions engaged in deposit banking and related services, extending credit in the form of loans, services allied with the exchange of securities and commodities, or consumer credit and collections.

04 DISTRIBUTIVE EDUCATION—Continued

04.05 00 00 00 FLORISTRY

Organized subject matter and learning experiences related to a variety of sales and sales-supporting tasks performed by distributive employees and management personnel in retail and wholesale establishments, engaged in selling floral arrangements, cut flowers, growing plants, artificial plants, and related items for ornamental use. (See also 01.05 02 00 00 Floriculture under AGRICULTURE.)

04.06 00 00 00 FOOD DISTRIBUTION

Organized subject matter and learning experiences related to a variety of sales and sales-supporting tasks performed by distri-utive employees and management personnel in establishments primarily engaged in selling food for home preparation and consumption, or selling a general or commodity line of food products at wholesale.

04.07 00 00 00

FOOD SERVICES

Organized subject matter and learning experiences related to the sales and salessupporting tasks performed by distributive employees and management personnel in establishments serving prepared foods and drinks for consumption on their own premises or at a place designated by the customer. (See also 09.02 03 00 00 Food Man-HOME ECONOMICS, and 17.29 00 00 Value agement, Production, and Services, under HOME ECONOMICS, and 17.29 00 00 00 Quantity Food Occupations under TRADE AND INDUSTRIAL OCCUPATIONS.)

04.08 00 00 00

GENERAL MERCHANDISE

Organized subject matter and learning experiences related to a variety of sales and sales-supporting tasks performed by dis-tributive employees and management per-sonnel engaged primarily in selling various types of merchandise at retail in department stores, junior department stores, va-riety stores, general merchandise stores, discount stores, and catalog houses.

04.09 00 00 00

HARDWARE, BUILDING MATERIALS, FARM AND GARDEN SUPPLIES AND EQUIPMENT

Organized subject matter and learning experiences related to various sales and sales-supporting tasks performed by dis-tributive employees and management personnel in establishments engaged primarily in selling one or more of the following product lines at retail, at wholesale, or to contractors: hardware, paint, wallpaper, lumber, building materials, supplies and equipment for home construction, or farm and garden supplies and equipment.

04.10 00 00 00

HOME FURNISHINGS

Organized subject matter and learning experiences related to various sales and sales-supporting tasks performed by dis-tributive employees and management personnel in retail and wholesale establishments engaged primarily in selling home furnishings such as furniture, household appliances, floor coverings, draperies, and specialized lines of home items. (See also 09.02 04 00 00 Home Furnishings, Equipment, and Services under HOME ECONOMICS.)

04.11 00 00 00 HOTEL AND LODGING

Organized subject matter and learning experiences related to the tasks performed by distributive employees and management personnel in establishments which provide lodging, lodging and meals, convention facilities, and other services on a yearround or seasonal basis to the general public or to an organization's membership.

04.12 00 00 00

INDUSTRIAL MARKETING

Organized subject matter and learning experiences related to the tasks performed by sales and management personnel in establishing market potentials and selling goods and services to business and institutional buyers for use in their operations.

04.13 00 00 00

INSURANCE

Organized subject matter and learning experiences related to the tasks performed by sales and management personnel for insurance carriers of all types, or by agents representing carriers and brokers dealing in the sale or placement of insurance contracts with carriers. (Comprises portion of definition of 03.24 00 00 00 Insurance and Risk under BUSINESS)

04.14 00 00 00

INTERNATIONAL TRADE

Organized subject matter and learning experiences related to the tasks performed by distributive employees and management personnel in a variety of business establishments concerned with export sales, trade controls, foreign operations, attitudes, monetary problems, and other elements in international marketing.

04.15 00 00 00 PERSONAL SERVICES

Organized subject matter and learning experiences related to the tasks performed by sales and management personnel in establishments primarily engaged in providing services. Generally, these services are concerned with personal improvement and the care of a person or his apparel. Included in this category are laundries and dry-cleaning establishments, shoe repair shops, funeral homes, photographic studios, and dance or art studios.

04.16 00 00 00 PETROLEUM

Organized subject matter and learning experiences related to the variety of sales and sales-supporting tasks performed by distributive employees and management personnel in retail or wholesale establishments engaged in the distribution of petroleum products.

04.17 00 00 00

REAL ESTATE

Organized subject matter and learning experiences related to tasks performed by persons who act for themselves or as agents for others in real estate brokerages or other firms engaged in buying, selling, appraising, renting, managing, and leasing of real property. (Included as 03.31 00 00 00 Real Estate under BUSINESS)

04.18 00 00 00

RECREATION AND TOURISM

Organized subject matter and learning experiences related to the variety of sales, counseling, and sales-supporting tasks performed by distributive employees and management personnel in establishments primarily engaged in providing amusement, recreation, entertainment, recreational supplies and equipment, or travel services. This instructional program also is designed for employees and management personnel engaged in other travel-serving businesses who assume responsibilities for stimulating the local economy through tourism.



04 DISTRIBUTIVE EDUCATION—Continued

04.19 00 00 00 TRANSPORTATION

Organized subject matter and learning experiences related to the physical movement of people, personal effects and products, and the sales, storing, and sales-supporting tasks performed by distributive employees and management personnel in enterprises engaged in passenger and freight transportation, public warehousing, and services incidental to transportation.

04.20 00 00 00

OTHER RETAIL TRADE

Include here other organized instructional programs and learning experiences emphasized in sales and sales-supporting tasks performed by distributive employees and management personnel in establishments engaged in selling merchandise purchased for resale to customers for personal, household, business or farm use, which are not listed above. (Specify.)

04.31 00 00 00

OTHER WHOLESALE TRADE

Include here other instructional programs and learning experiences, emphasized in sales and sales-supporting tasks performed by distributive employees and management personnel in places of business engaged primarily in selling goods to retailers, industrial, commercial, institutional and professional users, or bringing buyer and seller together, which are not listed above. (Specify.)

04.99 00 00 00

OTHER INSTRUCTIONAL PROGRAMS

Include here other organized instructional programs and learning experiences, emphasized in marketing functions performed by employees, managers and/or proprietors in establishments engaged in selling products or providing services to individuals and business establishments, including selected service trades, which are not classifiable as either retail or wholesale in nature and function. (Specify.)

04.00 00 01 00

DISTRIBUTION I—Organized learning experiences which are concerned with the competencies needed by those in basic entry jobs in distribution. The subject matter usually includes a survey of the marketing functions operating in a business enterprise, basic information and skills related to a product line or type of distributive service, and stresses the application of tool subjects, personal employability, and economic understandings. (Distribution I (Cooperative or Distribution I (Project) may be scheduled as an extension of Distribution I.)

04.00 00 02 00

DISTRIBUTION I (COOPERATIVE)—The extension of classroom instruction into regularly scheduled paid employment in distributive occupations appropriate to each pupil's vocational objective. Usually, the school refers pupils to training stations for an average of 15 hours per week throughout the year, arranges for on-the-job training and supervision, and grants credit for successful application of classroom instruction in the training situation.

04.00 00 03 00

DISTRIBUTION I (PROJECT)—The extension of classroom instruction into regularly scheduled laboratory training in which each pupil practices in and with conditions of employment appropriate to his vocational objective. Usually, the

instructor assigns individualized projects through which desired occupational competencies may be achieved, coordinates participation activities with requirements of representative businesses, arranges for some on-the-job training, and approves credit for successful performance in the school and business laboratory environments.

04.00 00 04 00

DISTRIBUTION II—Organized learning experiences which precede Distribution III and which are concerned with the competencies needed by those in career development jobs in distribution. The subject matter usually stresses the marketing functions operating in a business enterprise, knowledge and techniques related to product lines, and includes human relations, judgment skills, problems in the tool subjects, and the role of distribution in the economy. (Distribution II (Cooperative) or Distribution II (Project) frequently is scheduled as an extension of Distribution II.)

04.00 00 05 00 Distribution II (Cooperative)—Oriented to Distribution II. (For definition see 04.00 00 02 00 Distribution I (Co-

operative).

04.00 00 06 00

04.00 00 07 00

DISTRIBUTION II (PROJECT)—Oriented to Distribution II. (For definition see 04.00 00 03 00 Distribution I (Project).) DISTRIBUTION III—Organized learning

experiences which typically follow Distribution II and provide for more extensive treatment of the activities carried on in Distribution II. Usually, the subject matter is approached from the point of view of the employee in relation to management activities and merchandising problems. Continued emphasis is given to the effective use of tool skills and the social and economic responsibilities of those engaged in distribution. (Distribution III (Cooperative) or Distribution III (Project) frequently is scheduled as an extension of Distribution III.)

04.00 00 08 00

DISTRIBUTION III (COOPERATIVE)—Oriented to Distribution III. (For definition see 04.00 00 02 00 Distribution I (Cooperative).

04.00 00 09 00

DISTRIBUTION III (PROJECT)—Oriented to Distribution III. (For definition see 04.00 00 03 00 Distribution I (Project.).)

04.00 00 10 00

Principles of Marketing—Planned learning experiences which are concerned with the problems met in the process of moving goods from the producer to the consumer. The subject matter usually is approached from the viewpoint of employees and managers whose jobs require understandings and skills in the distribution of products and services. (Included as 03.27 01 00 00 Principles of Marketing under BUSINESS)

04.00 00 11 00

AGRICULTURAL MARKETING—Planned learning experiences which emphasize the principles and methods of marketing farm products. Usually, application is made to systems and agencies operating at both country and central markets, product grades, public regulations, pricing, and market analysis.

04.00 00 12 00

INDUSTRIAL MARKETING—The study and analysis of the marketing structure for industrial products. Emphasis frequently

DISTRIBUTIVE EDUCATION—Continued 04.00 00 21 00 MERCHANDISE MATHEMATICS—The study of the principles and mathematical processes applied to daily merchandising problems. The subject matter usually is on product policies and lines, distribution channels, sales programs, and ware-housing problems. (Included as 03.27 02 00 00 Industrial Marketing under BUSIincludes problems in computing markups and markdowns, stocksales ratios, invoice NESS) terms and dating, merchandise budgeting and interpretation of merchandising figures, and methods of inventory control. INTERNATIONAL MARKETING-The study 04.00 00 13 00 of the principles and practices of inter-national trade. Learning experiences RETAIL BUYING-The study of the 04.00 00 22 00 usually emphasize import-export pro-cedures, distribution and financing pracprinciples and procedures related to the buyer's job. The subject matter usually tices in foreign markets, and need and opportunities in international trade. (In-cluded as 03.27 03 00 00 International Marketing under BUSINESS) includes management problems of the store buyer, the organization for buying, resources, model stocks, buying plans, the techniques of buying, brand policies, and 04.00 00 14 00 MARKETING TRENDS-The study and foreign buying. analysis of trade and business literature and research findings about marketing RETAIL MERCHANDISING—The study of the merchandising function and its 04.00 00 23 00 procedures and management. Application usually is made to all types of marketing relationship to buying, personal selling, sales promotion, store operations, and situations by means of case analysis, special studies, the preparation of reports, management. In practice, emphasis is frequently on sales and profit analysis, planning and expense control, techniques of merchandise adjustment to current conditions, and marketing strategy. (Included as 03.32 03 00 00 Retail Merchandising (Selling) under BUSIfield observations, and product investiga-RETAILING-Organized learning activ-04.00 00 15 00 ities which emphasize the opportunities in and the development and present status of the retailing structure. Usually an analysis is made of the major store NESS) 04.00 00 24 00 OTHER BUYING-Include here other functions, procedures followed in retailing, and opportunities and requirements for career development. (Included as 03.32 00 00 00 Retailing under BUSINESS) organized subject matter and activities emphasized in buying which are not listed above. (Specify.) 04.00 00 28 00 CREDIT AND COLLECTIONS—The study of credit and its economic significance and NESS) RETAIL TRENDS—A study of the changing retail environment and technological ralation to sales and profit objectives. Subject matter often includes retail and 04.00 00 16 00 developments affecting retailing. In practice, pupils usually analyze current problems, review trade literature, examine research findings, and interpret business practices as related to management decisionmaking mercantile credit factors affecting credit policies, the investigation and extension of credit, types of credit instruments, records and credit analysis, collection systems and procedures, and legal remedies. (Included as 03.16 00 00 00 Credit and Collections under BUSINESS) ment decisionmaking. 04.00 00 17 00 Wholesaling—The study of the prob-04.00 00 29 00 MARKETING MANAGEMENT (GENERAL) lems, organization, and practices of Planned learning experiences which are designed for the systematic study of the wholesale establishments. Subject matter often includes wholesale merchandising management function and management and emphasizes the nature and structure decisions in relation to marketing policies, organization, personnel, and financing. (Included as 03.26 04 00 00 Merchandising Management under BUSINESS) of wholesaling, the distributing function, the warehousing function, sales analyses, stock control, and costs. BUYING—Organized learning experiences 04.00 00 18 00 MIDMANAGEMENT (GENERAL) — The study and analysis of the management 04.00 00 30 00 which are concerned with planning, obtaining, and controlling inventories of responsibilities of junior executives and supervisory personnel. Learning experiences frequently include directed occupamanufactured goods or raw materials for resale or processing. tional training and emphasize employee-management relations, administration of FASHION MERCHANDISING—The study of 04.00 00 19 00 the major considerations involved in the buying and merchandising of fashion products. The subject matter usually includes principles of selection, the buyer's operation in the market, con-sumer buying patterns, and planning for profitable results. company policies, interpretation of rec-ords, profit controls, and product movement. 04.00 00 31 00 PERSONNEL MANAGEMENT—A study of methods and policies applicable to personnel work in distributive businesses. FASHION TRENDS—The study of the fashion movement and factors which are significant in the analysis of potential Emphasis is frequently on employment 04.00 00 20 00 practices, job evaluation, ratings, labor relations, and employee development. (Included as 03.26 06 00 00 Personnel significant in the analysis of potential trends. In practice, pupils usually (1) survey the sources of fashion ideas, analyze the influence of fashion on apparel, home furnishings, and other products, and (2) study the principles and specialized fashion techniques utilized by fashion dispersions. Management under BUSINESS) RETAIL STORE MANAGEMENT—A study of the principal functions, departmental activities, and policies of retail stores. Frequently emphasis is on store organ-04.00 00 32 00 lized by fashion directors and coordinators in wholesale and retail organizaization and operations, including salessupporting activities, expenses, location tions. and layout, purchasing, and maintenance.

| 04 DISTRIBU | TTIVE EDUCATION—Continued | | 03 00 00 Advertising Media and Campaigns under BUSINESS) |
|----------------|--|----------------------------------|--|
| 04.00 00 33 00 | (Included as 03.32 05 00 00 Retail Store Management under BUSINESS) SMALL BUSINESS MANAGEMENT—A study of management functions, policies, and the practical experiences of managers of small business concerns. Emphasis frequently is on the nature of the managerial job, characteristics and special problems of the small businessman, and establishing and operating a small business successfully. (Included as 03.26 07 00 00 Small Business Management under BUSINESS) | 04.00 00 47 00 04.00 00 48 00 | ADVERTISING COPYWRITING — Planned learning experiences which emphasize the techniques used in creating effective advertising copy for various types of media. Application is frequently made to cases in national, retail, trade, mail order, industrial, and professional advertising. (Included as 03.02 02 00 00 Advertising Copywriting under BUSINESS) ADVERTISING LAYOUT—Planned learning experiences which emphasize the principles, elements, techniques, and rules |
| 04.00 00 34 00 | OTHER MARKETING MANAGEMENT—Include here other organized subject matter and activities emphasized in marketing management which are not listed above. (Specify.) | 04.00 00 49 00 | involved in creating an effective advertising layout. In practice, pupils usually plan and prepare layouts for various types of media. ADVERTISING MEDIA—The study of all |
| 04.00 00 38 00 | MARKETING RESEARCH—Planned learning experiences which are designed for the systematic study of the institutions and channels for the marketing of goods and services, including the market environment and interpretation of data from consumer, business, and government sources. (Included as 03.27 00 00 00 Marketing under BUSINESS) | 04.00 00 49 00 | types of advertising media and the bases for their selection. The characteristics, advantages, and limitations of various media are analyzed, such as periodical media, mass media, television and radio, and direct-mail media. (Comprises portion of definition of 03.02 03 00 00 Advertising Media and Campaigns under BUSINESS) |
| 04.00 00 39 00 | MARKETING ANALYSIS—Planned learning experiences which are concerned with the channels of distribution and decision-making regarding marketing expenditures. Subject matter generally includes the comparative advantages of different marketing channels, using an analytical | 04.00 00 50 00 04.00 00 51 00 | ADVERTISING PRODUCTION—The study of the production methods used to get a layout into print. Usually included for study are type and printing, engraving and plates, and specific applications to advertising materials. COMMERCIAL DESIGN—(For definition |
| | approach to discovering opportunities for business to increase volume, reduce costs, | | see 02.02 02 00 00 Commercial Design under ART.) |
| 04.00 00 40 00 | and increase profits. OTHER MARKETING RESEARCH—Include here other organized subject matter and activities emphasized in marketing research which are not listed above. (Specify.) ADVERTISING AND SALES PROMOTION—The study and development of skills concerned with the principles and | 04.00 00 52 00 | DIRECT-MAIL ADVERTISING—Organized learning activities which emphasize those forms of direct advertising that are sent through the mails. Usually included for study are the types and uses of direct mail, the development of mailing lists, requirements for successful direct-mail advertising, and practice in creating appropriate direct-mail material for a |
| | theory of advertising as a mass marketing and communications tool, and the coordination of external and internal activities of a promotional nature. (Included as 03.02.00 00 00 Advertising and Sales Promotion under BUSINESS) | 04.00 00 53 00 | variety of prospective buyers. (Included as 03.02 04 00 00 Direct-Mail Advertising under BUSINESS) RETAIL ADVERTISING—A study of advertising as applied to the retail field. Emphasis frequently is given to news- |
| 04.00 00 45 00 | ADVERTISING PRINCIPLES—The study of the economic, sociological, and psychological aspects of advertising. Usually, this is a survey of paid forms of nonpersonal presentations of facts about goods, services, or ideas directed toward groups of people. Emphasis is on understanding media, the role of advertising in the marketing structure, and the different institutions involved in the creation of advertising. Included as 03.02 01 00 00 Advertising Principles | 04.00 00 54 00 | paper advertising, the use of advertising at the point of sale, local resources, and direct media. RETAIL DISPLAY—A study of the principles and methods of artistic merchandise display. Learning experiences usually involve the techniques of installing window and interior displays, display tools, equipment and mannequins, and practice in constructing different types of displays. (Included as 03.32 02 00 00 Retail Display under BUSINESS) |
| 04.00 00 46 00 | under BUSINESS) ADVERTISING CAMPAIGNS — Planned learning experience which emphasize the coordination of sales policies, advertising appropriations, media selection, and marketing outlets for the purpose of developing demand for a product or a service. In practice, pupils often analyze and evaluate campaign procedures and plan one or more campaigns in relation to different promotional objectives. | 04.00 00 55 00 04.00 00 56 00 | RETAIL SALES PROMOTION—A study of modern sales promotion practices used by different types of retail stores. Emphasis frequently is on the coordination of advertising, display, special events and personal selling; the development and implementation of sales promotion plans; and special techniques in relation to hard and soft lines of goods. Showcard Techniques—The study and practice of showcard writing. Learning |
| | (Comprises portion of definition of 03.02 | | experiences usually include lettering, spa- |



| 04 DISTRIB | UTIVE EDUCATION—Continued | | 03.24 01 00 00 Principles of Insurance under BUSINESS) |
|----------------|---|----------------|--|
| 27.50.05.20.00 | cing, banner-making, showcard copy, and construction. | 04.00 00 72 00 | LIFE INSURANCE—The study of the fundamentals of life insurance. Subject |
| 04.00 00 57 00 | OTHER SALES PROMOTION—Include here other organized subject matter and activities emphasized in advertising and sales promotion which are not listed above. (Specify.) | | matter usually emphasizes the role of the salesman in analyzing the nature of personal risks or life contingency risks of businessess, types and functions of contracts, premium costs, proceeds, |
| 04.00 00 61 00 | PURCHASING—The study of the practices and problems which confront the purchasing agent. Subject matter often includes the sources of supply, market | 04.00 00 73 00 | and insurance company operation, (Included as 03.24 02 00 00 Life Insurance under BUSINESS) CASUALTY INSURANCE—The study of the |
| | information, material specification, control inventories, and the purchase budget. | 01.00 00 15 00 | fundamentals of casualty insurance. Subject matter usually emphasizes selling |
| 04.00 00 62 00 | SALESMANSHIP—Planned learning experiences which emphasize the psychological and economic impact of selling and the fundamentals of sales ability. Emphasis frequently is on practices in wholesale, retail, and specialty salesmanship; buying motives; creating product acceptance; | | skills in the fields of automobile, liability and theft insurance; the nature of contracts, benefits, and premiums; and controls and bonding. (Comprises portion of definition of 03.24 03 00 00 Property and Casualty Insurance under BUSINESS) |
| | building goodwill; and the application of new techniques to tangible and intangible sales. (Included as 03.33 00 00 00 Sales- manship Principles under BUSINESS) | 04.00 00 74 00 | PROPERTY INSURANCE—The study of fundamentals of property insurance. Subject matter usually includes the principles and practices involved in fire |
| 04.00 00 63 00 | DIRECT SALES—The study and analysis of opportunities, activities in, and requirements for outside selling. In practice, emphasis frequently is on planning and delivering sales presentations, management of time, prospecting, company and product competition, practical demonstrations, and field experiences. | | insurance and extended coverage, and marine insurance. Instruction emphasizes sales and management opportunities and problems and procedures in agency or home office work. (Comprises portion of definition of 03.24 03 00 00 Property and Casualty Insurance under BUSI-NESS) |
| 04.00 00 64 00 | RETAIL SELLING—A study of the fundamentals of successful retail store selling. Learning experiences frequently include the analysis of consumer psychology, steps in the sales process, and the development of selling skills and techniques by means of sales demonstrations, role playing, and occupational experience. (Included as 03.32 04 00 00 Retail Salesmanship (Selling) under BUSI- | 04.00 00 75 00 | REAL ESTATE PRINCIPLES—The study of the economic factors affecting real estate, regulations, practices, and professional ethics of the real estate business. Usually, this includes a survey of problems involved in the acquistion, ownership, use, and disposition of real estate interests. (Included as 03.31 01 00 00 Principles of Real Estate under BUSINESS) |
| 04.00 00 65 00 | NESS) SALES MANAGEMENT—The study of the operation of a sales organization involved in the outside selling of goods and/or services. The subject matter usually includes sales forecasting, hiring, evaluating, and supervising the sales force; managing territories and routes; and correlating the sales activities with those of production and other departments | 04.00 00 76 00 | REAL ESTATE PRACTICES—Planned learning experiences which emphasize the techniques of operating a real estate business and the actual procedures involved in the daily activities of brokers and salesmen. In practice, pupils usually develop skills needed in selling, prospecting, listing, making financial arrangements, effective advertising, and ethical relationships. |
| 04.00 00 66 00 | of the business enterprise. OTHER SELLING—Include here other | 04.00 00 77 00 | REAL ESTATE MANAGEMENT—The study of the fundamentals of property man- |
| | organized subject matter and activities emphasized in selling which are not listed above, (Specify.) | | agement. The subject matter usually includes the economics of real estate, managing income properties, methods of |
| 04.00 00 70 00 | Transportation—The study of practices and relationships in the physical distribution of merchandise. Subject matter often includes principles of traffic management; characteristics of | | promotion, professional standards, and the functions and qualifications of the property manager. (Included as 03.31 05 00 00 Real Estate Management under BUSINESS) |
| | air, motor, rail, and water transportation; pickup and delivery; consolidation; and finance. | 04.00 00 78 00 | REAL ESTATE LAW—The study of the legal aspects of property and property rights. The subject matter usually |
| 04.00 00 71 00 | PRINCIPLES OF INSURANCE—The study of the foundations of the standard forms of insurance and the functions of those following an insurance career. Subject matter usually emphasizes the practices | | includes legal practices as they apply to real estate ownership, operations, instruments, and various phases of the real estate business. (Included as 03.31 04 00 00 Real Estate Law under BUSINESS) |
| | and major coverages involved in life, fire, casualty, automobile, and property insurance; the nature of risk; the social and economic services of insurance; and insurance as a vocation. (Included as | 04.00 00 79 00 | REAL ESTATE APPRAISAL—Planned learning experiences which emphasize the factors affecting the value of farm, residential, commercial, and industrial real estate. In practice, pupils usually |
| | 11 | 7. | |

| 04 DISTRIBU | TIVE EDUCATION—Continued | | refinement of skills in reading, speaking, listening, and writing in distributive employment. (See also 03.06.00.00.00 |
|----------------|--|----------------|---|
| | develop appraisal proficiency by means of field work on property and making application of appraisal techniques, including the preparation of the appraisal report. (Included as 03.31 02 00 00 Real Estate Appraisal under BUSINESS) | 04.00 00 89 00 | Business Communications under BUSI-NESS.) Economics of Consumption—The study of the place of the consumer and his problems in the economic system. The |
| 04.00 00 80 00 | REAL ESTATE FINANCE—The study of the sources and availability of funds, and the procedures for financing real estate. The subject matter usually includes financial analyses of real properties, types of lenders, management servicing, and repayment of loans, government aids, regulations, and trends. (Included as 03.31 03 00 00 Real Estate Finance under BUSINESS) | | subject matter usually is concerned with the relationship of personal income to price levels; the role of the consumer in determining the amount of the national income and the stability of the economic system; and the effect of consumer liquid assets and availability of consumer credit on total consumer demand. (See also 15.06 03 00 00 Consumer Economics under SOCIAL SCIENCES/SOCIAL STUDIES.) |
| 04.00 00 81 00 | Real Estate Sales—The study of the fundamentals of real estate transactions. The subject matter usually includes analyzing residential and income properties, listing and showing property, prospecting and qualifying prospects, trades, modernization, regulations, and practices governing the sale or purchase of real property. (Included as 03.31 06 00 00 Real Estate Sales under BUSI- | 04.00 00 90 00 | Economics of Marketing—A study of the contributions of economic theory to the managerial problem of price determination and price policy. The subject matter usually includes demand and cost curves, survival and growth, values added by distribution, and problems of introducing the results of technological progress into the market. |
| 04.00 00 82 00 | NESS) PRODUCT INFORMATION—The study of the characteristics of specific products or services transferred during the marketing process. The subject matter usually includes the techniques of handling specific products performing personal or business services; the identification of values to customers; regulations and | 04.00 00 91 00 | EFFECTIVE STORE SPEECH—Planned learning activities which emphasize the development of facility in oral communications. The subject matter usually stresses the organization of ideas, product and marketing vocabulary, clarity of expression, telephone usage, and practice in the techniques used in different communications situations. |
| | controls; and sources of product in- formation used by consumers and the trade. (Included as 03.32 01 00 00 Merchandise Information (Product Infor- mation) under BUSINESS) | 04.00 00 92 00 | EMPLOYEE SUPERVISION—The study of supervisory relationships and practices in distribution and marketing. The subject matter usually includes techniques of employee induction, morale building, followup and evaluation, cor- |
| 04.00 00 83 00 | NONTEXTILES—The study of consumer products other than fabrics or soft-line merchandise. The subject matter usually includes materials used, their construction and care, and government regulations. Emphasis is on the values to consumers of different types and qualities of merchandise. | 04.00 00 93 00 | rection, grievances, and an analysis of leadership and motivation. EMPLOYEE TRAINING—The study of the principles, organization, and techniques of individual and group training in distributive occupations. The subject matter usually includes the development |
| 04.00 00 84 00 | TEXTILES—The study of fabrics and soft-line merchandise which are generally classified as apparel, domestics, or home furnishings. The subject matter usually includes the properties of natural and man-made fibers, fabric construction and finishes, appropriate utilization, values to the consumer, and marketing tech- | 04.00 00 94 00 | of initial and followup programs, department and sales meetings, practice training in skills, and acquisition of information. EVALUATION TECHNIQUES—The study of job evaluation and procedures for implementing an evaluation program. The subject matter usually includes systems of and steps in organized |
| 04.00 00 85 00 | niques. Accounting—(For definition see 03.01 | | evaluation, job ranking, rating devices, performance reviews, and the effect of |
| 04.00 00 86 00 | 00 00 00 Accounting under BUSINESS.) BUSINESS-GOVERNMENT RELATIONSHIPS —The study of the economic aspects of public policy affecting the market processes. The subject matter usually | 04.00 00 95 00 | evaluation on personnel supervision and administration. Expense Control—The study of practices and trends in expense control. The subject matter usually includes an |
| | includes an analysis of Federal, State, and local regulations; restraints of trade; monopoly; purposes and effect of laws relating to competition; the giant cor- poration; and international and domestic cartels. | 04.00 00 96 00 | analysis of expense items, the relation- ship of expense control to net profit, planning and adjustment to current conditions, and available tools for stock and dollar management. Human Relations—Organized learning |
| 04.00 00 87 00 | Business Law—(For definition see 03.09 00 00 00 Business Law under BUSINESS) | 02.00 00 00 | experiences which are concerned with personal effectiveness in relation to customers, to the distributive business, to |
| 04.00 00 88 00 | Communications for Distribution— Organized learning experiences which are concerned with the application and | | employees, and to job activities. (See also 03.11.00 00 00 Business Psychology under BUSINESS.) |

04 DISTRIBUTIVE EDUCATION—Continued

04.00 00 97 00 REPORT WRITING—(For definition see 03.06 02 00 00 Report Writing under

BUSINESS.)

04.00 00 99 00 OTHER SUBJECT MATTER IN DISTRIBUTIVE EDUCATION—Include here other organized subject matter and activities emphasized in distributive education not listed above or classifiable in one of the above major categories. (Specify.)

ENGLISH LANGUAGE ARTS 05.00 00 00 00

English language arts is comprised of the body of related subject matter, or the body of related courses, organized for carrying on learning experiences concerned with developing (1) an understanding of the language system; (2) proficiency and control in the use of the English language; (3) appreciation of a variety of literary forms; (4) understanding and appreciation of various aspects of past and present cultures as expressed in literature; and (5) interests which will motivate lifelong learning.

The Ad Hoc Committee for English Language Arts applied the following rationale to the selection of substantive content for placement in the English Language Arts subject-matter area: (1) the content was determined by consensus of the committee to be appropriate to English language arts; (2) subject-matter items could be defined in brief form using only salient descriptive elements; and (3) the various aspects of organized subject matter classified under English Language Arts were identifiable by titles which were considered to be most commonly used in current practice.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of English language arts as an integral part of the instructional program. As an example, the Journalism Club provides additional opportunities to develop leadership, other qualities, and an understanding of the role of journalism in society. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. They may be designed for participation of pupils as individuals or in groups. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the Journalism Club is identified for reporting purposes under Cocurricular Activities as Item 20.01 17 00 00.

Included under this heading are the items of information which identify various aspects of subject matter in the English language arts subject-matter

05.01 00 00 00 LANGUAGE SKILLS

Subject matter and experiences concerned with knowledge, understanding, and skills designed to develop competency in the use of language. Emphasis is on (1) oral language involving "intake" (listening), and "output" (speaking), and (2) written lan-

guage involving "intake" (reading), and "output" (writing). Activities include the development of vocabulary, concepts, interpretations, reactions and responses, and concentration on skills in writing, reading, speaking, listening.

05.01 01 00 00

Reading—Instruction designed to develop the skills necessary to perceive and react to patterns of written symbols and translate them into meaning. The teaching of reading is differentiated according to a number of levels and objectives. The continuous development of reading skills and vocabulary applies to all subject-matter areas, emphasizing selected skills and vocabulary appropriate to pupils' needs in different learning situations.

05.01 01 01 00

READING READINESS—A variety of planned activities designed to develop in children the mental, physical, and emotional maturity prerequisite to instruction in reading. In practice emphasis is placed on a variety of learning situations, e.g., direct and vicarious experiences involving oral language, such as listening, speech habits and patterns, developing sequential organization of ideas, vocabulary development, and experience with books and stories.

05.01 01 02 00

BEGINNING READING—The initial activities involved in teaching pupils to read, following necessary readiness activities. These reading activities are designed to develop understanding of the relationship between oral and written language, recognition of symbols (letters) and symbolsound relationships, and appreciation of the reading process.

05.01 01 03 00

Developmental Reading Program—A program of learning experiences designed to help pupils develop sequentially all aspects of reading proficiency needed by a mature reader. This program may be centered in a series of basal readers and their accompanying learning aids, in an individualized plan which utilizes an extensive library or utilizes reading in all of the materials of the content subjects. Each of these plans includes attention to oral and silent vocabulary development, comprehension, critical reading, speed and the adjustment of reading techniques to varying needs.

05.01 01 04 00

Basal Reader Program—Systematic learning experiences which are developed through a series of basic reading books and materials designed in sequential steps for successive levels of instruction.

05.01 01 05 00

REMEDIAL READING—Planned diagnostic and remedial activities, for individual pupils or groups of pupils, designed to correct and prevent further reading difficulties which interfere with the pupil's expected progress in developing reading skills, understandings, and appreciations.

 $05.01\ 01\ 06\ 00$

Individualized Reading—A reading program which utilizes an extensive library and permits self-selection of materials and pacing suited to each pupil. The development of skills is guided through individual conferences and individual or small-group teaching. An individualized reading program or a portion of this program may be part of another type of reading program.



| 05.01 01 07 00 On. R. Radnos—The reading aloud of printed materials. In practice, oral reading is used for a variety of purposes, e.g., to develop in translating and interpreting ideas from written words through oral expression, and to aid pupils in understanding patterns in linguistic structures. Translating and interpreting ideas from written words through oral expression, and to aid pupils in understanding patterns in linguistic structures. Translating and interpreting ideas from written words through oral expression, and to aid pupils in understanding and interpreting ideas from the content of alphabet (each character representing a distinct sound) instead of the standard 26-letter alphabet (each character represent varying a distinct sound) instead of the standard 26-letter alphabet (the which are not listed above, e.g., notictaking and outlisted and processes and developing the skills involved in using an inserbing instrument to record annually material to be read. 50.01 02 00 00 50.01 02 00 00 50.01 02 00 00 50.01 02 00 00 50.01 02 02 00 50.01 03 00 00 50.01 03 00 00 50.01 04 00 00 50.01 05 00 0 | 05 ENGLISH | LANGUAGE ARTS—Continued | | to use these references effectively and efficiently. |
|--|----------------|---|----------------|---|
| skills in pronunciation, to develop ability in translating and interpreting ideas from and to aid pupils in understanding patterns in linguistic structures. 55.01 01 08 00 STATAL TRACHING ALPHARET (ITA)—A decoding system using a 44-character alphabet (each character represently a distinct sound) instead of consonants represent varying sounds). 65.01 01 09 00 OTHER READING—Include here other organized subject matter and experiences emphasized in reading which are not lining skills (Specify.) 65.01 02 00 00 Handwriting (Permanaship)—Instruction designed on using an inserihing instrument to record using a state of the processes and developing the skills involved in makes use of variations of printed letter forms. 65.01 02 02 00 OCASSEW WITTNG—Instruction designed on the processes and developing the skills involved in a style of handwriting which are not insert allows the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills and to reconstitute and the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and developing the skills involved in serving the processes and | 05.01 01 07 00 | printed materials. In practice, oral read- ing is used for a variety of purposes, e.g., | 05.01 08 00 00 | Voice and Diction—(For definition see 05.05 03 01 00 Voice and Diction under |
| So. 0. 10 10 80 00 So. 0. 10 10 80 00 So. 0. 10 10 10 80 00 So. 0. 10 10 10 10 10 10 10 10 10 10 10 10 10 | | skills in pronunciation, to develop ability in translating and interpreting ideas from written words through oral expression, | | other organized subject matter and experi- ences emphasized in language skills which are not listed above. (Specify.) |
| 05.01 02 00 00 00 00 00 00 00 00 00 00 00 00 | 05.01 01 08 00 | terns in linguistic structures. INITIAL TEACHING ALPHABET (ITA)—A decoding system using a 44-character alphabet (each character representing a distinct sound) instead of the standard 26-letter alphabet (in which the vowels and consonants represent varying | 05.02 00 00 00 | The descriptive, historical, and theoretical study of language as such, its nature, structure, varieties, and history, including especially the sound system (phonology), grammatical system (morphology, syntax), lexical system (vocabulary, semology), and |
| So. 01 02 00 00 Handwriting (Permansship)—Instruction designed to assist pupils in learning the processes and developing the skills involved in a style of handwriting which makes use of variations of printed letter of the assist pupils in learning the processes and developing the skills in volved in a style of handwriting which makes use of variations of printed letter of the stripped of the assist pupils in learning the processes and developing the skills used in inscribing a style of handwriting utilizing flowing lines and connecting letters with strokes which have rounded angles. O5.01 02 09 00 O7.01 08 00 00 O7.0 | 05.01 01 99 00 | OTHER READING—Include here other or- ganized subject matter and experiences emphasized in reading which are not | | and theoretical study of the sound system of language or languages. Phonetics—The division of phonology |
| dealing with the study of distinctive units and structural patterns within the sound signed to assist pupils in learning the processes and developing the skills in volved in a style of handwriting which makes use of variations of printed letter forms. CURSIVE WITTING—Instruction designed to assist pupils in learning the processes and developing the skills used in inscribing a style of handwriting tuitizing flowing lines and connecting letters with strokes which have rounded angles. OTHER HANDWRITING—Include of other organized subject matter and experiences emphasized in handwriting which are not listed above. (Specify.) OFFICIAL PROPERTING—Include of the structure of standard within the sound and written usage. OTHER HANDWRITING—Include of the structure of standard written usage. OTHER HANDWRITING—Include of the structure of standard written usage. OTHER HANDWRITING—Include of the structure of standard written usage. OTHER HANDWRITING—Include of the structure of a language and and the type of grammar and the structure of a language in the study by various methods of the structural devices by which the tentility of the structure of a language would and the type of grammar deviced from Lating and the type of information available from this source, together with the skills needed to develop an understanding of the established system of points or marks used in written and the type of information available from this source, together with the skills needed to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to develop an understanding of the process by which dictionaries are constructed and the | 05.01 02 00 00 | lining skills. (Specify.) Handwriting (Penmanship)—Instruction designed to assist pupils in learning the | 05 02 01 02 00 | of the sounds of speech as spoken and heard. |
| signed to assist pupils in learning the processes and developing the skills involved in a style of handwriting which makes use of variations of printed letter forms. 05.01 02 02 00 Construg Whithout Instruction designed to assist pupils in learning the processes and developing the skills used in inscribing a style of handwriting utilizing flowing lines and connecting letters with strokes which have rounded angles. 05.01 02 99 00 Other Handwriting which are not listed above. (Specify.) 05.01 03 00 00 Spelling—Organized subject matter, experiences emphasized in handwriting which are not listed above. (Specify.) Spelling—Organized subject matter, experiences, and learning activities concerned with developing the mind-eye-hand coordinations and memory involved in ordering letters into whole words according to standard written usage. 05.01 04 00 00 Punctuation—Experiences designed to develop an understanding of the established system of points or marks used in written English to indicate the syntactic units in their interrelationships. The relationship of the marks to syntactic factors (such as sentence, clause, and phrase), to rhetorical factors (such as sentence, such as sentence, clause, and phrase), to rhetorical factors (such as emphase), parallelism, and subordination), and to voice factors (intonation patterns) may all be shown. 105.01 05 00 00 Listening—Activities which are planned to sharpen children's listening skills more and to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to locate and use this information. 05.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the process by which dictionaries are constructed and the type of information particular to each, together of the process o | 05 01 02 01 00 | in using an inscribing instrument to record manually material to be read. | | dealing with the study of distinctive units and structural patterns within the sound system of a specific language or dialect. |
| to assist pupils in learning the processes and developing the skills used in inscribing a style of handwriting utilizing flowing lines and connecting letters with strokes which have rounded angles. 05.01 02 99 00 OFHER HANDWRITING—Include here other organized subject matter and experiences emphasized in handwriting which are not listed above. (Specify.) Spelling—Organized subject matter, experiences, and learning activities concerned with developing the mind-eye-hand coordinations and memory involved in ordering letters into whole words according to standard written usage. 05.01 04 00 00 Punctuation—Experiences designed to develop an understanding of the established system of points or marks used in written their interrelationships. The relationship of the marks to syntactic units in their interrelationships, and to voice factors (such as emphasis, parallelism, and subordination), and to voice factors (such as emphasis, parallelism, and subordination), and to voice factors (such as emphasis, parallelism, and subordination), and to voice factors (such as emphasis, parallelism, and to toice factors (such as emphasis, parallelism, and subordination), and to voice factors (such as emphasis, parallelism, and to toice factors (such as emphasis, parallelism, and to toice factors (such as emphasis, parallelism, and to toice factors (such as emphasis, parallelism, and to voice factors (such a | 03.01 02 01 00 | signed to assist pupils in learning the processes and developing the skills in- volved in a style of handwriting which makes use of variations of printed letter | 05.02 02 00 00 | cluding primarily morphology and syntax; hence the study by various methods of the structural devices by which the meaning- bearing units of a language (morphemes, |
| scribing a style of handwriting utilizing flowing lines and connecting letters with strokes which have rounded angles. 05.01 02 99 00 OTHER HANDWEITING—Include here other organized subject matter and experiences emphasized in handwriting which are not listed above. (Specify.) Spelling—Organized subject matter, experiences, and learning activities concerned with developing the mind-eye-hand coordinations and memory involved in ordering letters into whole words according to standard written usage. 05.01 04 00 00 OTHER HANDWRITING—Include here other organized subject matter, experiences, and learning activities concerned with developing the mind-eye-hand coordinations and memory involved in ordering letters into whole words according to standard written usage. 05.01 04 00 00 OTHER HANDWRITING—Include here other organized subject matter, experiences, and learning activities concerned with developing the mind-eye-hand coordinations and memory involved in ordering letters into whole words according to standard written usage. 05.01 04 00 00 OTHER HANDWRITING—Include here other organized subject matter; experiences designed to develop an understanding of the established system of points or marks used in written English to indicate the syntactic units in their interrelationships. The relationship of the marks to syntactic cunits in their interrelationships. The relationship of the marks to syntactic units in their interrelationships. The relationship of the marks to syntactic units in their interrelationships. The relationship of the marks to syntactic with the syntactic units in their interrelationships. The relationship of the marks to syntactic units in their interrelationships. The relationship of the marks to syntactic with the syntactic units in their interrelationships. The relationship of the marks to syntactic with the skylland provided the syntactic units in their interrelationships. The relationship of the marks to syntactic units in their interrelations syntactic units in their interrelationships. T | 05.01 02 02 00 | to assist pupils in learning the processes | 05 00 00 01 00 | and their relationships indicated. |
| periences emphasized in handwriting which are not listed above. (Specify.) 05.01 03 00 00 Spelling—Organized subject matter, experiences, and learning activities concerned with developing the mind-eye-hand coordinations and memory involved in ordering letters into whole words according to standard written usage. 05.01 04 00 00 Punctuation—Experiences designed to develop an understanding of the established system of points or marks used in written English to indicate the syntactic units in their interrelationships. The relationship of the marks to syntactic factors (such as sentence, clause, and phrase), to rhetorical factors (such as emphasis, parallelism, and subordination), and to voice factors (intonation patterns) may all be shown. 05.01 05 00 00 Listening—Activities which are planned to sharpen children's listening skills and to foster appreciative, attentive, and analytical listening with increasing skill. (See also 05.05 01 04 00 U Listening and Experiences designed to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to locate and use this information. 05.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information are constructed and the type of information available from this source, together with the skills needed to locate and use this information. | 05.01 02 99 00 | scribing a style of handwriting utilizing flowing lines and connecting letters with strokes which have rounded angles. Other Handwriting—Include here | 05.02 02 01 00 | the type of English grammar commonly taught in schools from the nineteenth century on, generally using semantic cri- teria for identifying "parts of speech" |
| riences, and learning activities concerned with developing the mind-eye-hand coordinations and memory involved in ordering letters into whole words according to standard written usage. 05.01 04 00 00 Punctuation—Experiences designed to develop an understanding of the established system of points or marks used in written English to indicate the syntactic units in their interrelationships. The relationship of the marks to syntactic factors (such as sentence, clause, and phrase), to rhetorical factors (such as emphasis, parallelism, and subordination), and to voice factors (intonation patterns) may all be shown. 05.01 05 00 00 Listening—Activities which are planned to sharpen children's listening skills and to foster appreciative, attentive, and analytical listening with increasing skill. (See also 05.05 01 04 00 Listening under Speech.) 05.01 06 00 00 Dictionary Skills—Experiences designed to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to locate and use this information. 05.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information of particular to each, together | | periences emphasized in handwriting which are not listed above. (Specify.) | | grammar, emphasizing sentence analysis, and often normative in character and |
| velop an understanding of the established system of points or marks used in written English to indicate the syntactic units in their interrelationships. The relationship of the marks to syntactic factors (such as sentence, clause, and phrase), to rhetorical factors (such as emphasis, parallelism, and subordination), and to voice factors (intonation patterns) may all be shown. Usterning—Activities which are planned to sharpen children's listening skills and to foster appreciative, attentive, and analytical listening with increasing skill. (See also 05.05 01 04 00 Listening under Speech.) Dictionary Skills—Experiences designed to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to locate and use this information. Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information particular to each, together | 05.01 03 00 00 | riences, and learning activities concerned with developing the mind-eye-hand coordi- nations and memory involved in ordering letters into whole words according to stand- | 05.02 02 02 00 | Study concerned with the type of grammar which objectively describes and analyzes the structure of a language in terms of (1) formally identifiable units in |
| tonation patterns) may all be shown. 105.01 05 00 00 Listening—Activities which are planned to sharpen children's listening skills and to foster appreciative, attentive, and analytical listening with increasing skill. (See also 05.05 01 04 00 Listening under Speech.) 105.01 06 00 00 Dictionary Skills—Experiences designed to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to locate and use this information. 105.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information particular to each, together | 05.01 04 00 00 | velop an understanding of the established system of points or marks used in written English to indicate the syntactic units in their interrelationships. The relationship of the marks to syntactic factors (such as sentence, clause, and phrase), to rhetorical factors (such as emphasis, parallelism, and | | binations and (2) the immediate and ultimate constituents of sentences. (The term "Descriptive Grammar," sometimes used as an equivalency of "Structural Grammar," properly includes any kind of grammar derived inductively from objective observation of a body of utterances in a language.) |
| O5.01 06 00 00 Dictionary Skills—Experiences designed to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to locate and use this information. O5.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information particular to each, together Dictionary Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information particular to each, together D5.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information particular to each, together | 05.01 05 00 00 | tonation patterns) may all be shown. Listening—Activities which are planned to sharpen children's listening skills and to foster appreciative, attentive, and analytical listening with increasing skill. (See also | 05.02 02 03 00 | grammar which uses a set of rules, in a required order, capable of generating (or accounting for) all possible grammatically acceptable sentences of a language. The rules are commonly expressed as formulas |
| 05.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information particular to each, together O5.01 07 00 00 Reference Skills—Experiences designed to develop an understanding of the many types of reference materials and the type of information particular to each, together O5.02 03 00 00 Usage (Functional Grammar)—The study and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language, especially and teaching of the ways in which certain selected features of a language of the ways in which certain selected features of a language of the ways in which certain selec | 05.01 06 00 00 | Dictionary Skills—Experiences designed to develop an understanding of the process by which dictionaries are constructed and the type of information available from this source, together with the skills needed to | 05.02 02 04 00 | guistic units and operations. Transformational Grammar—A type of grammar (usually generative, q.v.) |
| | 05.01 07 00 00 | develop an understanding of the many types of reference materials and the type | 05.02 03 00 00 | meaning (i.e., by transformations). |



ered by general rules, are employed (the descriptive approach) or should be employed (the prescriptive approach). The features may be grammatical, lexical, or other, and they may be seen in relation to (1) the social of esthetic milieu (e,g., illiterate, common, and cultivated) and (2) the use they are put to (e.g., conversation, or formal address) In school practice, where a standard form of the language is to be inculcated, the prescriptive approach necessarily obtains; this is acceptable, however, if prescriptions are soundly based on accurate descriptions.

05.02 04 00 00

History of the English Language—The study of the ways in which the Anglo-Saxon dialects transplanted to Britain in the fifth century A.D. developed in the course of time into the language called "English," today. Any or all aspects of the broad subject are included, but attention centers especially on the "outer history" (the influence of nonlinguistic factors such as social and political change) and the "inner history' (the processes of general language change as they affected this specific language).

05.02 05 00 00

Dialectology—The study of the features of a language, written or spoken (sounds, forms, constructions, words), as they vary individually or in related groups with respect to their distribution, geographical or social. Theoretically, it can be synchronic (of a single point in time); practically, it is diachronic (historical), since the variations can be understood only as the result of developments occurring over a span of years. "Dialects" are often thought of as those varieties within a language which have more features in common with each other than they have separately.

05.02 06 00 00

Semantics (Semology)—The historical and descriptive study of meaning as a linguistic phenomenon, including the structure of the meaning system of a language or set of languages; the components of meaning and their combination in larger structures of meaning; the association of meanings with morphemes and words; and the systematic study of meaning change. This approach is to be distinguished from GENERAL SEMANTICS (see 05.04 01 03 00 General Semantics), which is defined by Webster III as "a doctrine and educational discipline due to Alfred Korzybski (1879-1950) intended to improve habits of response of human beings to their environment and one another especially by training in the better and more critical uses of words and other symbols." Specifically, the study of SEMANTICS deals with meaning as a system within the overall structure of language. guage; GENERAL SEMANTICS deals with meaning as a relationship between linguistic signs and the outside world.

05.02 07 00 00

Study About Language—A cover term used to include any instruction about language or languages (as distinct from instruction in a language or training in the skills of using language) which may be included in the curriculum from the elementary grades on, but which is not formal and developed sufficiently to be denominated LINGUIS. TICS (q.v.).

05.02 99 00 00 Other Linguistics-Include here other organized subject matter and experiences emphasized in linguistics which are not listed above. (Specify.)

LITERATURE

05.03 00 00 00

The study of printed materials which have noteworthy content and excellence of style, and which may be identified by country, type, and/or period of time. Such study may be directed to bodies of national literature such as American and British, or may be more inclusive as in World Literature, which term usually includes Oriental literary works. The types usually considered in the study of literature are biography, drama, essay, fiction, and pobiography, drama, essay, fiction, and po-etry. Myths and legends are sometimes con-sidered as types. Often the focus is on specialized areas as in "Biblical literature" and "classical literature." Occasionally, literary works are selected for a special group as in "children's literature" and "literature for adolescents." For developing taste and critical judgment, writing and discussion are frequently a means of instruction in the study of literature.

By Source: 05.03 01 00 00

American Literature—The study of selected American literary works of various types. Such subject matter is usually related to the development of distinctive qualities of the national literature through use by writers of indigenous materials. The study may be conducted within an historical framework or within an organization by themes or by literary types. (See also 05.03 00 00 00 *Literature*.)

05.03 02 00 00

Biblical Literature—The study of selected portions of the Old and New Testaments with attention to literary qualities and to ideas which have importance in the spiritual and intellectual life of western man. Frequently, attention is given to stories, events, and persons used or alluded to by western writers, artists, and musicians.

05.03 03 00 00

Classical Literature—The study of selected literary works of ancient Greece and Rome. Special attention is frequently given to materials which have been used or alluded to by more recent writers. (See also 05.03 00 00 00 *Literature*.)

05.03 04 00 00

English Literature—The study of selected English literary works of various types. These works can be approached within successive historical periods of English history with attention to differences in the cultural settings and varying styles of literary expression. (See also 05.03 00 00 00 Literature.)

05.03 05 00 00

World Literature—The study of selected literary works of Western and Eastern cultural origin from ancient times to the present. Such study frequently includes religious and philosophic works which have literary excellence. (See also 05.03 00 00 00 Literature.)

05.03 35 00 00

Other Literature by Source—Include here other organized subject matter and experiences emphasized in literature—by source—which are not listed above. (Specify.)

By Genre:

05.03 36 00 00 Biography-The study of the lives of persons in narrative accounts which have stylistic and other formal qualities that make them noteworthy as literary works. Techniques of presentation have been developed through ages; and many of these

have aimed to reveal the character of the subject as well as the facts of his life. Biographies often serve to satisfy young peoples' search for ideals and values.

05.03 37 00 00

Drama-The study of a type of literature distinguished by plot, setting, theme, and characters engaged in movement and dialogue. It is distinguished from narrative by being a direct presentation of action. The main types and styles of dramatic literature usually studied are: tragedy, comedy, melodrama, farce, social drama of ideas, classical, romantic, realistic, impressionistic, and expressionistic. The structure of a drama, its plot, and the techniques by which character is revealed are primary items for consideration in the study of a drama. Dramas are often expressions of a philosophy or social point of view of the dramatist, and often serve as excellent revelations of the temper of a historical period or of a culture. Appreciation of the literary qualities of a drama may be enhanced by its being read as an artistic creation intended for performance on a stage.

05.03 38 00 00

Essay-The study of expository writings of a formal and informal kind. The formal may include short or extended articles which present ideas or information, the writer's purpose frequently being to set forth a central idea or thesis. Informal essays, or familiar essays as they are sometimes called, may be read for a revelation of the writer's personality and subjective reactions to an experience or to an event which he has observed.

05.03 39 00 00 Fiction—The study of short stories and novels with special attention to point of view, plot, character, setting, and theme. Frequently, teachers select fictional works in accordance with their suitability for pupils' developmental levels and their needs and interests.

05.03 40 00 00

Poetry-The study of literary selections which are characterized by rhythm, imagery, words chosen for their connotative values, and varied figures of speech, especially similes and metaphors; they may or may not have rhyme. Poems may be studied by types, or they may be arranged by theme and studied in relation to theme. They sometimes are studied within an historical framework of literary periods; when studied in such contexts they may be considered as expressions of the spirit of the era in which they were written. However, they have most frequently been regarded as revelations of writers' emotions and ideas.

05.03 65 00 00

Other Literature by Genre-Include here other organized subject matter and experiences emphasized in literature—by genre—which are not listed above. (Specify.)

05.03 66 00 00

Children's Literature—The study of the portion of the larger body of literature which has both appeal and interest to children and is understood by them. Literature for children can be found in the various genres and can be obtained from both English and other sources. It extends from picture books designed specifically for young children to adult reading material.

05.03 67 00 00

Literature for Adolescents—The study of that portion of the larger body of literature which has both appeal and interest and can be understood by young people of the age range commonly called "adolescent." Literature for adolescents can be found in the various genres and can be obtained from both English and other sources.

05.03 68 00 00

Myth and Legend-The study of stories, ballads, and plays which have come from the oral tradition of national groups and which constitutes a part of their literature. Such folk material is sometimes organized as a unified body, but is more frequently combined with other literary works into thematic or type arrangements. Appreciation of esthetic qualities of such selections is often enhanced by their being sung, recited, or performed.

05.03 69 00 00

Humanities-The study of a group of related subjects such as literature, art, music, religion, history, philosophy, and classical and modern languages—with literary works usually forming the core—concerned with man's individual cultural achievements and values in society as distinguished from social institutions and customs of the natural world. Sometimes aspects of the various subject-matter areas are taught separately but relatedly; in other instances these aspects of subject matter areas are fused or integrated. (See also 02.01 03 00 00 Humanities under ART, 06.03 00 00 00 Humanities under FOREIGN LANGUAGES, 12.07 00 00 00 Humanities under MUSIC, and 15.09 00 00 00 Humanities under SO-CIAL SCIENCES/SOCIAL STUDIES.)

05.03 99 00 00

Other Literature-Include here other organized subject matter and experiences emphasized in literature which are not classified or listed above. (Specify.)

05.04 00 00 00

COMPOSITION

Learning activities concerned with the art of selecting, combining, and arranging words in connected discourse.

05.04 01 00 00

Theory—The study of the form of composition emphasizing dependence on principles and rules which have evolved through time, as well as dependence on personal abilities and the language to be used. On the basis of the language used, the pupil selects from his ideas those which can best be arranged in a form to which an individual may respond. Mental ordering of the ideas precedes writing them. Ideas are explored, experimented with, and revised through writing.

05.04 01 01 00

Logic—The study of the formal principles frequently included in composition courses with the objective of improving the reasoning of the writer. Principles of inductive and deductive thinking and possi-ble errors in such thinking form the basis of this instruction. Some of the topics usually included in the study of inductive reasoning are: the testing of the adequacy of evidence; the validity of generalizations; the cause and effect relationship—oversimplification and the attribution of false cause; the invalidating factor of difference in reasoning by analogy. The validity of the premises and their relationship to each other and to the conclusion in a syllogism are the essential topics in the study of deductive reasoning. The work in logic in a composition course also usually includes attention to the pitfalls of circular reasoning, begging the question, avoiding the issue, and arriving at a false or irrelevant conclu-





sion. Emphasis is given in such instruc-tion, not to the detection of errors in thinking found in other people's speech and writing, but to the avoidance of them in one's own.

05.04 01 02 00

RHETORIC-The study of the art of discourse and its various meanings, one of which is the same as that of "composition." Composition courses are sometimes referred to as rhetoric courses. Originally, in classic times, the term was applied to oratory, but in modern times it is also applied to written communication. Considered as the theory of composition, the term applies to the principles and rules of composition formulated by ancient critics and modified through the ages by theorists of the composing art. Generally, the subject matter and experiences involved in the study of these principles and rules are designed to aid in the arrangement of a speech or written discourse to bring about a desired effect on a listener or reader. Emphasized are: methods of persuasion; the effective and orderly arrangement of the parts of a discourse; style; and rhetoric as a system of gathering, arranging, and expressing the subject matter of discourse, and as a guide for making decisions in the process of composition. (See also 05.05 01 00 00 Rhetoric and Public Address under Speech.)

05.04 01 03 00

GENERAL SEMANTICS-The body of principles sometimes included for study and application in composition courses. The primary purpose of general semantics as a discipline, or as a point of view, in the field of communication is to improve language habits so that verbal symbols correspond more exactly to persons, things, and events on the nonverbal or fact level. It is the study of evaluative processes, the ways in which a person interprets his environment through signs symbols, including language. Attention is usually given to: factual as distinguished from inferential statements; multivalues in nature as distinguished from two-valued orientation in the language of writers or speakers; verbal abstractions as distinguished from loworder terms; indexing or noting differences to avoid stereotyping; dating to avoid rigidity; emotive language and its effects on human behavior; the distinction between a thing and its label or name; and the contexts of language.

05.04 02 00 00 Writing—Learning experiences designed to provide opportunities for pupils to develop knowledge, understanding, and skills essential to self-expression, e.g., ideas, interests, and facts, in written language. Writing forms vary according to the content, the audience, and the purpose of the writer.

05.04 02 01 00

EXPOSITORY WRITING—Learning experiences designed to develop knowledge, understanding, and skills involved in a form of writing concerned with selecting, ordering, and explaining information in a detailed, logical manner.

05.04 02 02 00

PERSUASIVE WRITING-Learning experiences designed to develop knowledge, understanding, and skills involved in a form of writing concerned with selecting and organizing ideas for presenting a par05.04 02 03 00

ticular point of view in a persuasive manner—employing inference and logic. CREATIVE WRITING—Learning experiences designed to develop knowledge, understanding, and skills involved in a form of writing that is free, not prescriptive, and expresses primarily the interest and emotions of the writer, particularly the personal satisfaction that the writer feels.

05.04 02 04 00

NARRATIVE WRITING—Learning experiences designed to develop knowledge, understanding, and skills involved in a form of writing concerned with telling a story in a sequentially organized manner.

05.04 03 00 00

Journalism—The study and practice of writing, editing, and publishing newspapers and periodicals. Instruction usually emphasizes reporting and feature and editorial writing. (See also the category 05.05 04 00 00 Speech Through Mass Media.)

05.04 03 01 00

REPORTING-The study and practice of gathering facts about current events and writing about such events for publication in newspapers and periodicals

05.04 03 02 00

EDITORIAL WRITING—The study and practice of composing an article of opinion or comment for publication in a newspaper or periodical.

05.04 03 03 00

FEATURE WRITING—The study and practice of composing an article with strong emotional or human interest appeal for

05.04 03 04 00

publication in a newspaper or periodical. HISTORY OF JOURNALISM-The study of the financial, technical, and editorial processes and the contributions of individuals involved in the publishing of newspapers and periodicals from the beginnings of such publications to the present.

05.04 03 99 00

OTHER JOURNALISM—Include here other subject matter emphasized in journalism which is not listed above. (Specify.)

05.04 99 00 00

Other Composition—Include here other organized subject matter emphasized in composition which is not listed or classifiable above. (Specify.)

05.05 00 00 00

Subject matter and experiences comprised of a wide spectrum of studies and activities that range from the scientific (voice science) through the humanistic (rhetoric) and the behavioral sciences (group dynamics) to the artistic (oral interpretation of literature). The unifying feature of these studies and activities is the predominance, in varying degrees, of oral communication.

05.05 01 00 00 Rhetoric and Public Address—The study of the practical arts of speaking as revealed in the variety of forms and functions evident in public discourse. Emphasized are speech-making (composition and delivery), argumentation and debate, audience analysis and listening behavior, persuasion, discussion, parliamentary procedure, speech criticism, and the history of rhetoric and public address. (See also 05.04 01 02 00 Rhetoric under Composition.)

05.05 01 01 00

PUBLIC SPEAKING—The study of theory and practice involved in composing and delivering speeches, including informative, persuasive, and inspirational types.

05.05 01 02 00

ARGUMENTATION AND DEBATE—Study and practice in the discovery, selection,



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| 05 ENGLISH | analysis, organization, and presentation of evidence and argument for and against | 05.05 04 00 00 | Speech Through Mass Media—The study and practice of the techniques and procedures of mass media as well as the identification of artistic features unique to each medium. The study of history and |
|----------------------------------|--|----------------|--|
| | a proposition, often in formal debate. (See also the category 05.04 02 00 00 | | criticism is usually coupled with experiences in the arts of radio, television, and/or films. |
| 05.05 01 03 00 | Writing.) COMMUNICATION THEORY—An analysis of the communication process, including the psychology of the listener, information theory, message formulation, and dissemination. | 05.05 04 01 00 | RADIO AND TELEVISION—A study of broadcasting, with exercises, where appropriate, that include its history, its role in contemporary society, its artistic dimensions, its production techniques, principal genres, et al. |
| 05.05 01 04 00 | LISTENING—The exploration and study of the theory of listening with oral-aural practice in the skills of comprehension through listening. (See also 05.01 05 00 00 Listening under Language Skills.) | 05.05 04 02 00 | FILM—A study of, and in some instances practice in, the cinematographic arts including history, production, and criticism. |
| 05.05 01 05 00 | DISCUSSION—The exploration and study of evidence and issues, through analysis and oral exchanges, leading toward the identification of problems and the formu- | 05.05 99 00 00 | Other Speech—Include here other organized subject matter and experiences emphasized in speech which are not classifiable or listed above. (Specify.) |
| | lation of possible solutions. Included are study and practice in the use of the various forms of discussion: informal groups, committees, conferences, panels, symposiums, forums, et al. | 05.06 00 00 00 | DRAMATIC ARTS Subject matter and experiences concerned with a wide range of studies and activities including playwriting, dramatic literature, scenic design, acting, directing, and the supporting arts and crafts of the theatre |
| 05.05 01 06 00 | Speech Criticism—A study of rhetorical theory, past and present, including a critical examination of recorded speeches and their contexts. | 05 04 01 00 00 | and of selected aspects of radio, television, and film. |
| 05.05 01 07 00 | PARLIAMENTARY PROCEDURE—A study of the theory, with opportunities for practice, of the rules and procedures used | 05.06 01 00 00 | Acting—Theory and practice in the art and craft of interpreting roles from dramatic literature for presentation on the stage or through certain mass media. |
| 05.05 01 08 00 | in conducting formal meetings. Persuasion—Subject matter and experiences designed for intensive study and practice in the composition and delivery of speeches that are designed, through the use of appropriate rhetorical tech- | 05.06 02 00 00 | Dramatic Literature—The study of the types, forms, and styles of plays from both the past and the present with special emphasis on the elements of production that are used in transposing a manuscript into living theatre. |
| 05.05 01 99 00 | niques and motivational patterns, to change or strengthen beliefs or to secure action. OTHER RHETORIC AND PUBLIC ADDRESS— | 05.06 03 00 00 | Creative Dramatics—Learning activities wherein pupils, using nondramatic literary materials created by themselves or by others, create informal, nonscripted plays |
| | Include here other organized subject matter and experiences emphasized in rhetoric and public address which are not listed above. (Specify.) | 05.06 04 00 00 | using their own words and movements. Play Production—The study of, coupled with opportunities for practical experience with, such component elements in produc- |
| 05.05 02 00 00 | Oral Interpretation of Literature—The study of principles, and opportunities for practicing the art of analyzing and reading literature aloud to others. | 05 06 05 00 00 | ing plays as directing, staging, costuming, makeup, properties, and business management. Playwriting—A study of the theory of dra- |
| 05.05 02 01 00 05.05 02 02 00 | CHORAL SPEECH—The theory and practice of group readings of literary works. READERS' THEATRE—The analysis and | 03.00 03 00 00 | matic writing (form, structure, style) coupled with an examination of representative plays and appropriate exercises in writing. |
| 03.03 02 02 00 | performance of dramatic works embody- ing the principles of oral interpretation of literature as opposed to those of acting. | 05.06 06 00 00 | |
| 05.05 03 00 00 | Speech Improvement—Subject matter and experiences concerned primarily with the acquisition, largely through study and exercises, of such basic language skills as adequate projection, articulation, phrasing, | | design, lighting design, and stagecraft with opportunities, frequently in conjunction with cocurricular activities, for practical experiences. |
| 05.05 03 01 00 | vocal variation, and appropriate usage. VOICE AND DICTION—The study, and application through exercises, of knowledge about voice production and the means for | 05.06 07 00 00 | Theatre Criticism—The study of the theatre including, frequently, the related arts of film and television emphasizing such elements as esthetics, social impact, and historical perspective. |
| | improving projection, articulation, pro- nunciation, phrasing, melody patterns, et al., and for developing where needed, often through the use of phonetics, stand- ard usage. | 05.06 08 00 00 | 그 경기가 하면 이번 바로 보고하는 것이라면서 이 그들을 때문에 되었다. 그 그렇게 되고 있다면 하는데 되었다. |
| 05.05 03 99 00 | OTHER SPEECH IMPROVEMENT—Include here other organized subject matter and experiences emphasized in speech im- provement which are not listed above. (Specify.) | 05.06 99 00 00 | |



OTHER ENGLISH LANGUAGE ARTS 05.99 00 00 00 Include here other organized subject matter and experiences emphasized in English language arts which are not classifiable or listed above. (Specify.)

FOREIGN LANGUAGES

06.00 00 00 00

The body of subject matter in this area is comprised of a variety of foreign languages, including English as a foreign language. Classified under this heading are the various classical and modern foreign languages.

Usually, the activities involved in the teaching and learning of a foreign language are planned in

terms of selected objectives:

1. to assist the pupil in acquiring progressive proficiency in the control of the skills of listening comprehension, speaking, reading, and writing, and in structural analysis;

2. to develop the pupil's capacity to apply these acquired skills in understanding, analyzing, and interpreting a variety of forms of past and

current thought;

to increase the pupil's knowledge and understanding of the countries, cultures, and attitudes of the peoples whose language is being

The Ad Hoc Committee for Foreign Languages applied the following rationale to the selection of the languages for placement in the Foreign Languages area: (1) the various languages selected and classified were determined by the ad hoc committee as including the languages most frequently taught in the United States; and (2) the various languages selected for placement under Classical Languages and Modern Foreign Languages could be defined in brief form using only salient descriptive elements.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of foreign languages as an integral part of the instructional program. As an example, the Foreign Language Club provides additional opportunities to apply various acquired skills, increase knowledge about different countries, and develop appreciation for the role of foreign languages in communication. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the Foreign Language Club is identified for reporting purposes under Cocurricular Activities as Item 20.01 09 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78,

and the items classified in the X 32 00. Series-School Services Supporting Instruction on pages 90-96 Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page

The following and other categories of information in chapters 3 and 4 of Handbook VI, when related to a foreign language, may provide the type of information represented by "stream" and "level" (which are not defined here): X 03 00. Series—Placement, on pages 63-65; X 06 00. Series-Time Elements, on pages 66-71; and the X 23 00. Series-Planned Instructional Outcomes for Pupils, on pages 89-90.

06.01 00 00 00 CLASSICAL LANGUAGES

Usually considered to be the study of the language, literature, and culture of an ancient civilization. Selected emphases in instruction in any of the classical languages may be identified in the list of items following 06.01 99 00 00. An example might be: language taught, 06.01 01 00 00 Arabic (classical); emphases in instruction, 06.01 01 01 00 Culture and 06.01 01 02 00 Listening Comprehension.

Arabic (classical)—The language, literature, and culture of the ancient Arabic world. 06.01 01 00 00

Chinese (classical)—The language, literature, and culture of the ancient Chinese world. 06.01 02 00 00

06.01 03 00 00 Greek (classical)-The language, literature, and culture of the ancient Greek world.

Hebrew (classical/Biblical)—The lan-06.01 04 00 00 guage, literature, and culture of the ancient Hebrew world.

06.01 05 00 00 Latin (classical)—The language, literature, and culture of the ancient Roman world.

06.01 99 00 00 Other Classical Languages-Include here any other language, literature, and culture of an ancient civilization emphasized in instruction which is not listed under classical languages above. (Specify.)

Selected Emphases:

06.01 00 01 00 CULTURE 06.01 00 02 00 LISTENING COMPREHENSION 06.01 00 03 00 READING 06.01 00 04 00 SPEAKING 06.01 00 05 00 STUDY OF LITERATURE 06.01 00 06 00 TRANSLATION 06.01 00 07 00 WRITING

06.01 00 99 00

OTHER SELECTED EMPHASES—Include here other skills, knowledge, and understanding not included above. (Specify.)

06.02 00 00 00 MODERN FOREIGN LANGUAGES

The study of the language, literature, and culture of a selected segment of the population of the modern world. Selected emphases in instruction in any of the modern foreign languages may be identified in the list of items following 06.02 99 00 00. An example might be: language taught, 06.02 06 00 00 Danish; emphases in instruction, 06.02 06 01 00 Culture and 06.02 06 02 00 Listening Comprehension.

06.02 01 00 00 Arabic, Modern Standard-The language, literature, and culture of the Arabicspeaking peoples of the modern world. Mod-

^{*} See footnote, General Language, chapter 5, p. 122.

| 06 | F | O | RE | IGN | N LANGUAGES—Continued |
|------|----|----|------|-----|--|
| | | | | | ern Standard Arabic, based on classical Arabic, is the most commonly taught and used language as a vehicle of communication among the various Arabic-speaking peoples. |
| 06.0 |)2 | 02 | 00 | 00 | Arabic, colloquial—The spoken regional language and culture of a given segment of the Arabic-speaking world. (The dialect should be specified.) |
| 06.0 | 02 | 03 | 00 | 00 | Chinese, modern Mandarin—The official oral language of the Chinese-speaking people of the modern world. The study of modern Mandarin may include literature and culture. |
| 06.0 | 02 | 04 | 00 | 00 | Chinese, Cantonese—The spoken language and culture of the Cantonese-speaking people. |
| 06. | 02 | 05 | 00 | 00 | Czech—The language, literature, and culture of the Czech-speaking people. |
| 06. | 02 | 06 | 00 | 00 | Danish—The language, literature, and culture of the Danish-speaking people. |
| 06. | 02 | 07 | 00 | 00 | English as a foreign language—The study of the language, literature, and culture of the English-speaking peoples by individuals whose mother tongue is not English. |
| 06. | 02 | 08 | 00 | 00 | French—The language, literature, and culture of the French-speaking people. |
| 06. | 02 | 09 | 00 | 00 | German—The language, literature, and culture of the German-speaking people. |
| 06. | 02 | 10 | 00 | 00 | Greek, modern—The language, literature, and culture of the Greek-speaking people of the modern world. |
| 06. | 02 | 11 | 00 | 00 | Hawaiian—The language, literature, and culture of the Hawaiian-speaking people. |
| 06. | 02 | 12 | 00 | 00 | Hebrew, modern (Israeli)—The language, literature, and culture of the Hebrewspeaking people of the modern world. This is the official language of Israel. |
| 06. | 02 | 13 | 00 | 00 | Italian—The language, literature, and culture of the Italian-speaking people. |
| 06. | 02 | 14 | 00 | 00 | Japanese—The language, literature, and culture of the Japanese-speaking people. |
| 06. | 02 | 15 | 00 | 00 | Norwegian—The language, literature, and culture of the Norwegian-speaking people. |
| 06. | 02 | 16 | 00 | 00 | Polish—The language, literature, and culture of the Polish-speaking people. |
| 06. | 02 | 17 | 00 | 00 | Portuguese—The language, literature, and culture of the Portuguese-speaking people. |
| 06. | 02 | 18 | 00 | 00 | Russian—The language, literature, and culture of the Russian-speaking people. Other languages spoken within the U.S.S.R.—such as Georgian, Ukranian, and Uzbec—should be recorded under the item, Other Modern Foreign Languages.* |
| 06. | 02 | 19 | 00 | 00 | Spanish—The language, literature, and culture of the Spanish-speaking peoples. |
| 06. | 02 | 20 | 00 | 00 | Swedish—The language, literature, and culture of the Swedish-speaking people. |
| 06. | 02 | 99 | 00 | 00 | Other Modern Foreign Languages*— Include here any other language, literature, and culture of a selected segment of the modern world emphasized in instruction which is not listed under modern foreign languages above. (Specify.) |
| 06 | 09 | 00 | 0.01 | 00 | Selected Emphases: Culture |
| | | | | 00 | LISTENING COMPREHENSION |
| | | | - | | |

^{*} See footnote, General Language, chapter 5, p. 122.

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| 06.02 | UU | 04 | 00 | SPEAKING | | | |
|-------|----|----|----|---------------------------------|--|--|--|
| 06.02 | 00 | 05 | 00 | STUDY OF LITERATURE | | | |
| 06.02 | 00 | 06 | 00 | TRANSLATION | | | |
| 06.02 | 00 | 07 | 00 | Writing | | | |
| 06 02 | 00 | 99 | 00 | OTHER SELECTED EMPHASES—Include | | | |

here other skills, knowledge, and understanding not included above. (Specify.)

06.03 00 00 00 HUMANITIES

The study of a group of subjects such as classical and modern languages, art, music, literature, religion, history, and philosophy—with foreign languages usually forming the core—concerned with man's individual cultural achievements in society as distinguished from social institutions and customs of the natural world. Sometimes aspects of the various subject-matter areas are taught separately; in other instances these aspects of subject matter are fused or integrated. (See also 02.01 03 00 00 Humanities under ART; 05.03 69 00 00 Humanities under ENGLISH LANGUAGE ARTS; 12.06 00 00 00 Humanities under MUSIC; and 05.09 00 00 00 Humanities under SOCIAL SCIENCES/SOCIAL STUD-IES.)

HEALTH OCCUPATIONS EDUCATION 07.00 00 00 00

Education for health occupations comprises the body of related subject matter, or the body of related courses, and planned experiences designed to impart knowledge and develop understanding and skills required to support the health professions. Instruction is organized to prepare pupils for occupational objectives concerned with assisting qualified personnel in providing diagnostic, therapeutic, preventive, restorative, and rehabilitative services to people, including understanding and skills essential to provide care and health services to patients.

Education for health workers usually is conducted by recognized education agencies and appropriate health institutions and services that can make available the quality and kind of experiences needed by the trainee in developing the competencies required for his occupational goal.

Instructional programs which prepare persons for occupations that render health services directly to patients provide planned instruction and experience in appropriate clinical situations. For occupations that render health services which do not involve direct services to patients, planned instruction and experience in laboratories and/or appropriate work situations are provided as an integral part of the instructional program.

Licensure, Certification, and Registration

Techniques for the regulation of workers in health occupations have been developed and administered, either by appropriate professional organizations or by legally constituted authority in the respective States, as a means to safeguarding, the public against unqualified and/or unscrupulous persons. Therefore, regulatory procedures such as

licensure, certification, and/or registration in certain of the health occupations have been established.

Licensure—Under the authority of a State, laws are enacted setting forth the minimum qualifications for persons and the standards to be met for practicing in an occupation. All physicians, nurses, dental hygienists, and a growing number of paramedical personnel must be licensed in their respective fields. Organizations representing these groups have sought and helped to establish State laws for licensing practitioners in their fields. They have also found that mandatory regulation of these occupations under State licensure laws best serves the public interest. Employers, too, have come to rely upon the legal licensing agency for assurance that a practitioner is qualified in his field.

Certification—Professional societies endeavor to improve the quality of services provided by supportive personnel in health fields through voluntary certification of individual workers. Standards pertaining to education, experience, and personal qualifications are determined by the professional society, usually in cooperation with the auxiliary group that is subject to the certification procedure. Applicants wishing to become certified under these standards must make application to the certifying board of the association and comply with the certification of standards.

Registration—The term registration is used by certain occupational groups interchangeably with either the term licensure or certification. "Registered" nurse connotes a nurse who is licensed to practice as a professional nurse or as a technical-level nurse. A "registered" medical librarian is certified by and registered with her professional association. Registration may be interpreted in specific instances by placing after it (L) when "licensure" applies, or (C) when "certification" applies.

Note: In situations involving designation of "licensure," "certification," or "registration" for record and/or report purposes as applicable to selected items in this subject-matter area, the following symbols may be used: (L) for Licensure; (C) for Certification; and (R) for Registration.

The Ad Hoc Committee for Health Occupations Education applied the following rationale to the selection of substantive content for placement in the Health Occupations Education area: (1) the items selected and classified were determined by consensus of the committee to be representative of the subject matter most commonly taught in health occupations education in the United States; (2) the various aspects of subject matter were identified by titles which were considered as being most commonly

used; and (3) the various aspects of subject matter selected for placement under Health Occupations Education could be defined in brief form using only salient descriptive elements.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples, see the items classified in the X 07 00. Series.—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series.—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included under the heading, Health Occupations Education, are items of information which describe selected aspects of education for health occupations. In the following definitions the term "subject matter" includes theory that may be given either in a school or in a clinical setting, and the term "experiences" includes the applied subject matter which is provided in a clinical setting.

07.01 00 00 00 DENTAL

Included in this category are occupations concerned with supportive services to the dental profession.

07.01 01 00 00 Dental Assisting—A combination of subject matter and experiences designed to prepare a person to assist the dentist at the chairside in the dental operatory, to perform reception and clerical functions, and to

carry out selected dental laboratory work.

07.01 02 00 00 Dental Hygiene (Associate Degree)—A combination of subject matter and experiences designed to prepare a person to provide services to patients such as performing complete oral prophylaxis, applying medication, and providing dental health education services, both for chair-side patients and in community health programs, under the supervision of the dentist. (Included as 16.03 01 00 00 Dental Hygiene (Associate Degree) under TECHNICAL EDUCA-

07.01 03 00 00 Dental Laboratory Technology—A combination of subject matter and experiences designed to prepare a person to execute the work in producing restorative appliances required for the oral health of the patient as authorized by the dentist.

07.01 99 00 00 Other Dental—Include here other organized subject matter and experiences emphasized in occupations, not listed above, which are concerned with supportive services to the dental profession. (Specify.)

07.02 00 00 00 MEDICAL LABORATORY TECHNOL-OGY

Planned subject matter and laboratory experiences concerned with bacteriological, biological, and chemical tests to provide data for use in diagnosis and treatment of diseases—using microscopes, micrometers, and other instruments. Persons prepared in this area usually work under the supervision of medical technologists, clinical pathologists, or physicians.

07.02 01 00 00 Cytology (Cytotechnology)—A combination of subject matter and experiences designed to prepare a person to stain and screen smeared slides for determination of abnormalities of exfoliated cells that may

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assist in the diagnosis of cancer. This work is performed under the supervision of a physician.

07.02 02 00 00 Histology—A combination of subject matter and experiences designed for teaching a person to prepare, section, and stain tissues for microscopic study under the direction of a clinical pathologist.

07.02 03 00 00 Medical Laboratory Assisting—A combination of subject matter and experiences organized to prepare a person to work under the supervision of medical technologists, clinical pathologists, or physicians to perform routine clinical laboratory procedures. (Included as 16.03 03 00 00 Medical Laboratory Assisting under TECHNICAL EDUCATION)

07.02 04 00 00 Hematology—A combination of subject matter and experiences organized to prepare a person to collect blood and perform complete blood counts; prepare and stain blood smears; perform hemoglobin determinations; carry out tests to determine bleeding time, coagulation time, sedimentation rate, and prothrombin time; and to determine relative amounts of plasma and corpuscles.

07.02 99 00 00 Other Medical Laboratory Technology
—Include here other organized subject matter and experiences emphasized in occupations, not listed or classifiable above, which are concerned with medical laboratory technology. (Specify.)

07.03 00 00 00 NURSING

A combination of subject matter and clinical experiences designed to prepare a person to provide nursing care to patients in hospitals, sanitariums, clinics, or other institutions by administering medications and treatments, assisting the physician during treatment and examination of patients, or performing related auxiliary services.

07.03 01 00 00 Nursing (Associate Degree)—A combination of general and nursing education and clinical experiences designed to prepare a person for general-duty nursing under the nurse supervisor or physician, or with other members of the health team. (Included as 16.03 05 00 00 Nursing (Associate Degree) under TECHNICAL EDUCATION)

07.03 02 00 00 Practical (Vocational) Nurse—A combination of subject matter and supervised clinical experiences designed to prepare a person to give direct nursing care under the supervision of a nurse or physician.

07.03 03 00 00 Nursing Assistance (Aide)—A combination of subject matter and experiences which prepares a person to perform simple tasks involved in the personal care of individuals receiving nursing services. These tasks are performed under the supervision of a nurse.

07.03 04 00 00 Psychiatric Aide—A combination of subject matter and experiences designed to prepare a person to care for mentally ill patients in a psychiatric medical care facility under direction of nursing and medical staff. Included is instruction in patient hygiene and grooming, feeding, obtaining laboratory specimens, observing patients for unusual behavior, methods of aiding in restraining patients to prevent injury to themselves or

others, and encouraging participation in social and recreational activities.

07.03 05 00 00 Surgical Technician (Operating Room Technician)—A combination of subject matter and experiences designed to prepare a person to serve as a general technical assistant on the surgical team in the operating suite.

07.03 06 00 00 Obstetrical Technician—A combination of subject matter and experiences designed to prepare a person to assist in the care of mothers in labor and delivery rooms before, during, and after delivery under the supervision of professional personnel.

07.03 07 00 00 Home Health Aide—A combination of subject matter and experiences designed to prepare a person to assist the elderly, convalescent, or handicapped in their homes and to provide for their daily living needs which may be described as physical, mental, emotional, social, and spiritual.

07.03 08 00 00 School Health Aide—A combination of subject matter and experiences designed to prepare a person to assist the physician or nurse with physical examinations, health education, and the conduct of ongoing programs for improving or maintaining students' health.

07.03 99 00 00 Other Nursing—Include here other organized subject matter and experiences emphasized in occupations, not listed or classifiable above, which are concerned with nursing. (Specify.)

07.04 00 00 00 REHABILITATION

A combination of subject matter and experiences designed to prepare a person to work under the direction of a physician and the supervision of other appropriate specialists in assisting handicapped persons to overcome or compensate for any loss of function, and to restore the individual's physical and/or mental health to an optimum level.

07.04 01 00 00 Occupational Therapy—A combination of subject matter and experiences designed to prepare a person to assist the professional occupational therapist in implementing the plan of therapy for a patient as prescribed by a physician.

07.04 02 00 00 Physical Therapy—A combination of subject matter and experiences designed to prepare a person to assist the professional physical therapist in implementing the plan of therapy for a patient as prescribed by a physician.

07.04 03 00 00 Prosthetics—A combination of subject matter and experiences designed to prepare a person to write specifications for and to make and fit artificial limbs, following the prescription of a qualified medical practitioner. Instruction includes the study of anatomy, biomechanics, engineering as related to prosthetic appliances, and shop experience in prosthetic construction.

07.04 04 00 00 Orthotics—A combination of subject matter and experiences designed to prepare a person to write specifications for and to make and fit braces and appliances for body deformities and disorders, following the prescription of a qualified medical practitioner. Instruction includes the study of anatomy, biomechanics, engineering as related to orthotic appliances, and shop experience in orthotic construction.

07.04 99 00 00 Other Rehabilitation—Include here other organized subject matter and experiences

emphasized in occupations, not listed or classifiable above, which are concerned with rehabilitation. (Specify.)

07.05 00 00 00 RADIOLOGIC

A combination of subject matter and experiences designed to prepare a person to apply roentgen rays and radioactive substances to patients for diagnostic and therapeutic purposes. Instruction may include the study of anatomy, physiology, radiation physics, radiographic techniques, chemistry of processing and darkroom technique, radiation protection, and equipment maintenance.

07.05 01 00 00 Radiologic Technology (X-ray)—A combination of subject matter and experiences designed to prepare a person for the safe use of X-ray equipment in clinical settings under the supervision of a radiologist or other physician. (Included as 16.03 04 00 00 Radiologic Technology (X-ray) under TECHNICAL EDUCATION)

07.05 02 00 00 Radiation Therapy—A combination of subject matter and experiences designed to prepare a person to use radiation producing devices to administer therapeutic treatments as prescribed by a radiologist.

07.05 03 00 00 Nuclear Medical Technology—A combination of subject matter and experiences designed to enable a person, working under a qualified physician, to prepare, administer, and measure radioactive isotopes in therapeutic, diagnostic, and tracer studies, utilizing and maintaining safe storage and handling of a variety of radioisotope equipment.

07.05 99 00 00 Other Radiologic—Include here other organized subject matter and experiences emphasized in occupations, not listed or classifiable above, which are concerned with radiologic. (Specify.)

07.06 00 00 00 OPHTHALMIC

A combination of subject matter and experiences designed to prepare a person, working under the supervision of an ophthalmologist or optometrist, to perform tests, administer treatment preliminary to examination or surgery, prepare and fit eyeglasses or contact lenses, and direct corrective eye exercises.

07.06 01 00 00 Ophthalmic Dispensing—A combination of subject matter and experiences designed to train a person to prepare, assemble, and fit corrective lenses as prescribed by a physician or optometrist.

07.06 02 00 00 Orthoptics—A combination of subject matter and experiences designed to prepare a person, working under the supervision of an ophthalmologist, to teach others with correctable focusing defects to develop and use binocular vision (focusing of both eyes).

07.06 03 00 00 Optometrist Assistant—A combination of subject matter and experiences designed to prepare a person to assist an optometrist in making tests to determine defects in vision, preparing and fitting eyeglasses or contact lenses, administering corrective eye exercises, or other treatment that does not require drugs or surgery.

07.06 99 00 00 Other Ophthalmic—Include here other

07.06 99 00 00 Other Ophthalmic—Include here other organized subject matter and experiences emphasized in occupations, not listed or classifiable above, which are concerned with ophthalmic. (Specify.)

07.07 00 00 00 ENVIRONMENTAL HEALTH

A combination of subject matter and experiences designed to prepare a person, working under the supervision of a specialist, to recognize and evaluate environmental hazards such as radiation, fungi, air pollution, waste and sewage, noise, vibration, and poor lighting, and to prescribe methods of eliminating or controlling them.

07.07 01 00 00 Environmental Health Assistant—A combination of subject matter and experiences designed to prepare a person to assist sanitary engineers, scientists, physicians, and veterinarians to gather data on, inspect, and evaluate facilities and industries concerned with the public, such as water supply, the food industry (processing, distribution, and service), and sewage disposal facilities and plants.

07.07 02 00 00 Radiological Health Technician—A combination of subject matter and experiences designed to prepare a person to conduct radiological evaluations of exposure to X-ray, gamma, and alpha emitters and to recommend measures to insure maximum protection.

07.07 03 00 00 Sanitarian Assistant—A combination of subject matter and experiences designed to prepare a person, under supervision of a professional sanitarian, to investigate public and private establishments to determine compliance with or violation of public sanitation laws and regulations. These persons take samples of such materials as water, food, and air, and perform contamination

07.07 99 00 00 Other Environmental Health—Include here other organized subject matter and experiences emphasized in occupations, not listed or classifiable above, which are concerned with environmental health. (Specify.)

07.08 00 00 00 MENTAL HEALTH TECHNOLOGY
A combination of subject matter and experiences designed to prepare a person to assist professionals in the mental health

07.08 01 00 00 Mental Health Technician—A combination of subject matter and experiences designed to prepare a person to assist nursing and medical personnel in rehabilitating mentally ill patients through recreational and occupational activities, training in new patterns of living, physical care of patients, and giving prescribed medication.

07.08 02 00 00 Mental Retardation Aide—A combination of subject matter and experiences designed to prepare a person to attend to the physical needs and well-being of mentally retarded patients and to aid in teaching and recreation processes under the supervision of professional staff members.

07.08 99 00 00 Other Mental Health Technology—Include here other organized subject matter and experiences emphasized in occupations, not listed or classifiable above, which are concerned with mental health technology. (Specify.)

07.09 00 00 00 MISCELLANEOUS HEALTH OCCUPATIONS EDUCATION

Include here other health occupations education programs not elsewhere classified which prepare a person to provide specified medical and health services.

07.09 01 00 00 Electroencephalograph Technician—A combination of subject matter and experi-



ences designed to prepare a person to operate electrical equipment which records brain waves on a graph to be used by a medical practioner in diagnosing brain disorders. Instruction in minor repairs and maintenance of equipment may be included. (Included as 16.03 02 00 00 Electroencephalograph Technician under TECHNICAL EDUCATION)

07.09 02 00 00 Electrocardiograph Technician—A combination of subject matter and experiences designed to prepare a person to operate an electrocardiograph machine, recording electromotive variations in the action of heart muscle, and to provide data for diagnosis and treatment of heart ailments by a physician. Instruction in minor repairs and maintenance of equipment may be included.

07.09 03 00 00 Inhalation Therapy—Preparation includes a combination of subject matter and experiences designed to prepare a person to perform procedures and operate and maintain equipment used in supporting respiratory functions, including the administration of oxygen and other sustaining gases, as directed by a physician.

07.09 04 00 00 Medical Assistant (Assistant in physician's office)—A combination of subject matter and experiences designed to prepare a person to perform functions and follow procedures concerned with diagnosis and treatment of patients in a physician's office. Instruction includes physical examinations, laboratory tests, X-rays, measurements, and medications.

07.09 05 00 00 Central Supply Technician—A combination of subject matter and experiences designed to prepare a person to adjust, clean, sterilize, and assemble hospital equipment, supplies, and instruments according to prescribed procedures and techniques. Also included in instruction are inspection, evaluation and recommendation for purchase of equipment and materials, and distribution and inventory.

07.09 06 00 00 Community Health Aide—A combination of subject matter and experiences designed to prepare a person to serve as liaison between professional health workers and the recipients of health services. Instruction emphasizes basic understanding of biology, communicable diseases, environmental health, personal hygiene, infants, medicines, and family and community resources.

07.09 07 00 00 Medical Emergency Technician—A combination of subject matter and experiences designed to prepare technicians to become members of the health team, responsible to professional members, qualified to (a) respond to medical emergency calls, (b) evaluate the nature of the emergencies, (c) take appropriate prompt action to reduce the medical hazards to the receiving station, and (d) serve as technical assistant to the emergency-room staff of general hospitals.

07.09 08 00 00 Food Service Supervisor—A combination of subject matter and experiences designed to prepare a person to understand the nature of nutritional diseases and the importance of controlled diets in the treatment of patients with such diseases in a hospital or other health institution under the supervision of a dietitian. Instruction includes in-

spection of special diet trays and evaluation of patients' responses to diets.

Mortuary Science—A combination of sub-

ject matter and experiences designed to prepare a person to perform the sanitary and embalming preparations for interment in conformity with legal requirements. 07.09 10 00 00 Orthopedic Assisting—A combination of subject matter and experiences designed to

07.09 09 00 00

subject matter and experiences designed to prepare a person to assist an orthopedic specialist in preserving, restoring, and developing the form and function of the extremities, spine, and associated structures by medical, surgical, and physical methods.

07.99 00 00 00 OTHER HEALTH OCCUPATIONS EDUCATION
Include here other subject matter and

Include here other subject matter and experiences emphasized in health occupations education which are not listed or classifiable above. (Specify.)

HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION 08.00 00 00 00

The body of related subject matter and activities in health and safety in daily living, physical education, and recreation are organized for carrying on learning experiences concerned with developing (1) knowledge, attitudes, appreciations, and conduct essential to individual and group health; (2) awareness of, concern for, and knowledge, skills, and judgment necessary for practicing and promoting personal and public safety in the home, at school, on the job, and in traffic; and (3) physical and mental growth and fitness by means of activities designed to improve the muscles, motor skills, and attitudes and habits of conduct of individuals and

The Ad Hoc Committee for Health and Safety in Daily Living, Physical Education, and Recreation applied the following rationale to the selection of items for placement in the Health and Safety in Daily Living, Physical Education, and Recreation area: (1) the items were determined by consensus of the committee to be especially appropriate to health and safety in daily living, physical education, and recreation; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various items were identifiable by titles which the *ad hoc* committee considered to be most commonly used in current practice.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of health and safety in daily living, physical education and recreation as an integral part of the instructional program. As an example, the Girls' Athletic Association provides additional opportunities to develop leadership, citizenship, and other qualities. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. They may be designed for participation of pupils as individuals or in groups. A variety of activities is identified under 20.00 00 00 Cocurricular Activities in chapter 5 beginning on

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08 HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION AND RECREA-TION—Continued

page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the Girls' Athletic Association is identified for reporting purposes and further described under Cocurricular Activities as Item 20.02 11 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the item sclassified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included under this heading are the items of information which identify various aspects of subject matter and learning activities in health, safety in daily living, physical education, and recreation.

08.01 00 00 00 HEALTH

Learning activities which utilize experiences for influencing understanding, attitudes, and practices relating to individual, family, and community health. Instruction is based on scientific facts and truths which serve as a foundation for decisionmaking and action to achieve health potentials.

08.01 01 00 00 Community Health—The study of (1) the availability and accessibility of public, private, and voluntary health services and facilities; (2) the functions and services of local, State, and Federal health agencies, including public, voluntary, and professional; and (3) prevailing health conditions in the community.

08.01 02 00 00 Consumer Health—Learning experiences designed to help pupils develop the ability to make sound decisions in the selection and utilization of health services, the selection of health and accident insurance, and the purchase of health products. Emphasis is also on developing knowledge essential for recognizing quackery and false advertising in relation to foods, drugs, and mechanical devices.

08.01 03 00 00 Disease Prevention and Control: Communicable and Chronic—The study of the cause, control, and prevention of disorders which impair health, with emphasis on prevention. The various diseases are usually categorized under two headings—"communicable" and "chronic." The former includes diseases which can be transferred from one person to another, such as tuberculosis, venereal diseases, and measles; the latter includes diseases such as cancer, heart disease, multiple sclerosis, and cerebral palsy.

08.01 04 00 00 Environmental Health—Learning experiences designed to help the pupil understand the effect upon man's health and well-being of such environmental factors as water supply, pollution control, food contamination, air pollution, radiation exposure, crowdedness, noise, and mobility.

08.01 05 00 00 Family Life Education (including Sex Education)—The study of the family as an entity and as a unit in the community; the

physical, psychological, sociological, and emotional aspects of growth toward maturity; and the biology of reproduction.

08.01 06 00 00 First Aid—Learning experiences designed to (1) develop understanding and skills necessary, in time of emergency, to prevent the death or further injury of a person until the services of a physician can be obtained, and (2) provide instruction concerning the national program of medical self-help.

08.01 07 00 00 Growth and Development—The study and development of understanding concerning the physical, mental, emotional, and social changes which occur in human development from conception through adulthood. Included are such areas as body structure and function, heredity, environmental influences, and differences and likenesses among people.

08.01 08 00 00 Harmful Substances—The study of the effects of the misuse of alcohol and the use of tobacco, narcotics, dangerous drugs, volatile chemicals, tranquilizers, and similar products on individuals, families, and communities. Also included and emphasized is information on poisons, poisonous plants, and poison control centers.

08.01 09 00 00 Health Careers—The exploration and

Health Careers—The exploration and study of professional, semiprofessional, technical, and allied occupational opportunities which contribute directly to the health and well being of people. Areas emphasized for exploration include medicine, dentistry, nursing, dental hygiene, research technology, laboratory technologies, dietetics, nurses' aides, and supporting services.

08.01 10 00 00 Health Maintenance and Care—Organized learning experiences directed toward helping the individual to assume responsibility for attaining optimum personal health through giving attention to such factors as the development and maintenance of personal fitness (physical fitness); a balance in exercise, work, sleep and rest, relaxation and recreation; and body care and grooming.

08.01 10 01 00 FOODS AND NUTRITION—(For definition see 09.01 07 00 00 Foods and Nutrition under HOME ECONOMICS.)
08.01 10 02 00 DENTAL HEALTH—Learning experiences

Dental Health—Learning experiences designed to develop knowledge and understanding concerning the growth and structure of the teeth, causes and prevention of tooth decay and other dental diseases, and sound practices in the care of the teeth and gums (mouth).

PHYSICAL FITNESS: EXERCISE, WORK, SLEEP, REST, RELAXATION, AND RECREATION—Learning experiences designed to help pupils develop understanding and desirable attitudes regarding the relationship between vigorous exercise and health and the need for balance among exercise, rest, sleep, relaxation, work, and recreation.

Personal Grooming and Body Care— Learning experiences designed to develop in the pupil good practices in grooming, dress, cleanliness and body care, e.g., face, ears, and eyes.

MENTAL HEALTH—Experiences and conditions directed toward helping the pupil develop the ability to adapt to his environment, to perceive reality accurately, to manage stress healthfully, to stand on his own two feet, and to learn and to develop a feeling of well-being.

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08.01 10 03 00

08.01 10 04 00

08.01 10 05 00

08 HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION—Continued

08.01 10 99 00 OTHER HEALTH MAINTENANCE AND CARE—Include here other organized subject matter and experiences emphasized in health maintenance and care which are not listed above. (Specify.)

08.01 11 00 00 International Health—An organization of subject matter concerned with the cooperation between two or more nations for (1) the prevention and control of disease, and (2) the improvement of personal and community health—both aimed toward accelerating social and economic development.

08.01 99 00 00 Other Health—Include here other organized subject matter and experiences emphasized in health education which are not listed or classifiable above. (Specify.)

08 02 00 00 00 SAFETY IN DAILY LIVING

SAFETY IN DAILY LIVING
Subject matter and learning experiences
concerned with developing in individuals
(1) an awareness and understanding of
hazards of every day living, and (2) the
knowledge, habits, attitudes, and skills
which will enable them to function at optimum level in the presence of hazards.

08.02 01 00 00 Explosives—(For definition see 21.02 02 00 00 Explosives under SAFETY AND DRIVER EDUCATION.)

08.02 02 00 00 Firearms—The study of the proper use of firearms, including knowledge of the gun and its working mechanism, its use in hunting, trap and skeet shooting, marksmanship, and legal requirements related to firearms.

08.02 03 00 00 Fire Safety—The study of fire safety emphasizing subject matter and learning experiences designed to develop desirable attitudes regarding fire prevention and fire waste, and help pupils understand the hazards and benefits of fire, including causes and preventive measures. Consideration is given to various common hazards such as smoking, matches, electricity, heating units, explosive materials, rubbish, outdoor fires, lightning, construction defects, and procedures to be followed in case of fire, e.g., escape plans and fighting fires.

08.02 04 00 00 Holiday and Vacation Safety—A familiarization with and study of hazards as they apply to Halloween, including costumes, tricks and treating, and traffic safety; Christmas, including hazards of shopping, decorating, preparing a safe Christmas tree, and electrical equipment. Other holidays often given attention are Memorial Day (parades, traffic); Fourth of July (fireworks and explosives); Labor Day, Veteran's Day, New Year's Day (drinking and driving); Easter; Yom Kippur (use of candelabra in fire-safe place); Thanksgiving; and Arbor Day (proper and safe use of garden tools).

A study of vacation safety is emphasized, including constant changing of the environment necessitating more self-responsibility due to less supervision than at other times. Frequently considered are playgrounds, parks and camping areas, public places (stores, churches, libraries, theatres), public transportation, excursions, general recreational areas (picnicking, hiking), fishing, bathing and swimming, canoeing, sunburn and exposure, and traffic safety.

08.02 05 00 00 Personal Responsibility in Unsupervised Activities—Learning experiences designed to develop in pupils self-responsibility and responsibility for others as they participate in unsupervised activities. Consideration is usually given to the following areas: (1) safe play sites, (2) sportsmanlike conduct, (3) respect for property, (4) places to avoid, (5) strangers, and (6) what to do in case of an accident, (Included as 21.02 04 00 00 Personal Responsibility in Unsupervised Activities under SAFETY AND DRIVER EDUCATION)

08.02 06 00 00 Safety in the Home—Learning experiences and activities designed to help pupils understand the hazards in and around the home including falls, burns, gas poisoning, poisons, mechanical suffocation, firearms, home workshops, garden tools, and power mowers; electrical fixtures and appliances; treatment of cuts, scratches, and bruises; animals; and engaging a baby sitter. (Included as 21.02 05 00 00 Safety in the Home under SAFETY AND DRIVER EDUCATION)

O8.02 07 00 00 Safety in Physical Education and Recreation—Learning experiences and activities designed to develop in pupils an understanding of the hazards in physical education (including sports) and recreational activities; acceptance of responsibility for their own safety and that of fellow participants; and essential knowledge, skills, habits, and attitudes for safe participation. These learning experiences are emphasized as an integral part of instruction in physical education

and recreation.

School Safety—A study of safety in and around the school—on playgrounds, and in halls and stairs, classrooms, and washrooms.

Also emphasized in instruction are the responsibilities of the administration, teachers, pupils, custodians, and parents. (Included as 21.02 06 00 00 School Safety under SAFETY AND DRIVER EDUCATION)

08.02 09 00 00 Traffic Safety—(For definition see 21.02 07 00 00 Traffic Safety under SAFETY AND DRIVER EDUCATION.)

08.02 09 01 00

BICYCLE, MOTOR BIKE, OTHER—(For definition see 21.02 07 01 00 Bicycle, Motor Bike, other under SAFETY AND DRIVER EDUCATION.)

08.02 09 02 00 PASSENGER—(For definition see 21.02 07 02 00 Passenger under SAFETY AND DRIVER EDUCATION.)

08.02 09 03 00 PEDESTRIAN—(For definition see 21.02 07 03 00 Pedestrian under SAFETY AND DRIVER EDUCATION.)

08.02 09 04 00 STUDENT PATROL—(For definition see 21.02 07 04 00 Student Patrol under DRIVER AND SAFETY EDUCATION.)

O8.02 09 99 00

OTHER TRAFFIC SAFETY—Include here other organized subject matter and experiences emphasized in traffic safety which are not listed above or in the category 21.02 07 00 00 Traffic Safety under SAFETY AND DRIVER EDUCATION. (Specify.)

08.02 10 00 00 Vocational and Occupational Safety—
Learning experiences concerned with unsafe working areas and conditions and unsafe personal conduct, including causes and effects. Safety practices are emphasized as related to a wide range of situations, e.g., the handling and storing of a variety of objects,

HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREA-TION—Continued

machine operations, use of tools, the environment, fire prevention and protection, onthe-job instruction, accident reporting, rules, and off-the-job accidents. (Included as 21.02 08 00 00 Vocational and Occupational Safety under SAFETY AND DRIVER EDUCATION)

08.02 11 00 00 Water Safety—Learning experiences and activities designed to provide instruction emphasizing safety in swimming, diving, water sports, skin and scuba diving, handling of small crafts, skiing, surfacing, health precautions, and rescue skills.

08.02 99 00 00

Other Safety in Daily Living-Include

here other organized subject matter and experiences emphasized in safety in daily living which are not listed above. (Specify.) 08.03 00 00 00 PHYSICAL EDUCATION

Organized, sequential, and systematic application of the concepts and principles of the art and science of human movement through the teaching-learning medium of physical activities. The types of planned movement experiences are organized under various descriptive titles such as Adapted Physical Education; Aquatics; Body Dynamics; Dance, Rhythms, and Dramatic Activities; Group Games, Contests, and Relays; Individual and Dual Sports; Out-door Recreational Activities; Stunts, Tum-bling, and Gymnastics; and Team Sports. With movement as its central focus, physical education is directed primarily to:

a. The pupil's ability and capability to

b. The use he makes of his movement ability for essential purposes such as survival, health maintenance and improvement, fitness, education for leisure, communication, and expression; and

c. The relationship of his movement to his physical and social environment and to other aspects of his total growth and

development.

In the area of physical education several classified items are not defined because of their obvious and well-understood meaning, e.g., Baseball, Basketball, Football, Water Games, and Folk Dance.

08.03 01 00 00

Adapted Physical Education-Planned, diversified, and highly personalized physical activities suited to the special needs of pupils having atypical physical, mental, and/or behavioral conditions of temporary or enduring nature, and who may not safely or successfully participate unrestrictedly in the vigorous activities of the regular instructional program of physical education. Instruction provides for corrective and remedial physical education and recreational adaptations as needed.

08.03 02 00 00

Aquatics-Organized activities, in or on the water, designed to provide opportunities for pupils to experience activities such as swimming, diving, lifesaving, synchronized swimming, water games, handling small crafts, skin and scuba diving, waterskiing, and surfing. (The following items are not defined because of their being commonly understood.)

08.03 02 01 00 08.03 02 02 00 DIVING LIFESAVING

08.03 02 03 00 SKIN AND SCUBA DIVING 08.03 02 04 00 SMALL CRAFTS 08.03 02 05 00 SURFING 08.03 02 06 00 SWIMMING 08.03 02 07 00 SYNCHRONIZED SWIMMING 08.03 02 08 00 WATER GAMES 08.03 02 09 00 WATER SKIING 08.03 02 99 00 OTHER AQUATICS—Include here other organized subject matter and experiences emphasized in aquatics which are not listed above. (Specify.)

08.03 03 00 00 Body Dynamics-Planned physical activities based primarily on the pupil's special needs and desires for self-discovery, selfevaluation, self-direction, and self-management in maintaining, motivating, and improving his general level of total fitness and achievement of better performance in special tasks and in daily living. These activities include Conditioning Exercises, Fundamental Movements, Individual Self-testing Events, and Posture Education.

08.03 03 01 00

CONDITIONING EXERCISES—Activities involving invented, nonplayful, systematic movements-individually or teacher-didesigned specifically strengthen muscle groups, prepare the body for more strenuous effort, or improve efficiency of performance and appearance. Specific kinds of movement experiences include calisthenics or free exercises, weight training, and exercises with specialized equipment or apparatus. FUNDAMENTAL MOVEMENTS—Planned experiences involving a series of basic,

natural movements, common to all

physical activities such as creeping, crawling, walking, running, hopping, skipping, leaping, jumping, throwing, and climbing. INDIVIDUAL SELF-TESTING EVENTS-Physical activities concerned with measurable and scorable events, based on the pupil's desire to test his own physical abilities in the elements or specific skills of sports and games, e.g., the football throw and kick for distance and accuracy, the baseball throw for strikes and distance, baskets per minute with the basketball, and the volleyball

08.03 03 04 00

serve for accuracy. POSTURE EDUCATION—The study of the mechanics of the body and the most efficient and esthetic patterns of body alignment and performance in a variety of daily activities, including the relationship of balance, strength, flexibility, agility, and proper clothing and environmental factors to efficient postures in physical activity, work, rest, and relaxa-

08.03 03 99 00

OTHER BODY DYNAMICS—Include here other organized subject matter and experiences emphasized in body dynamics not listed above. (Specify.)

08.03 04 00 00 Dance, Rhythms, and Dramatic Activities-Activities which are imitative or creative expressions of movement designed to communicate ideas and feelings. A wide variety of rhythmic, space, and movement patterns are involved, including:

08.03 04 01 00

DANCE (PHYSICAL EDUCATION)—Organized activity performed by pupils, alone or with others, in patterns of sequential movements in rhythm, usually accom-panied by music. Various types of dances



| 08 HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREA- | 08.03 07 01 00 08.03 07 02 00 | CAMPING CYCLING |
|--|----------------------------------|---|
| TION—Continued | 08.03 07 03 00 | Fishing |
| are organized under such descriptive | 08.03 07 04 00 | Hunting |
| titles as folk, square, modern, and social. | 08.03 07 04 01 | Bow Hunting |
| 08.03 04 01 01 Folk Dance | 08.03 07 04 02 | Rifle Hunting |
| 08.03 04 01 02 | 08.03 07 04 03 | Shotgun Hunting |
| 08.03 04 01 03 Social Dance | 08.03 07 04 99 | Other Hunting (Specify.) |
| 08.03 04 01 04 Square Dance | 08.03 07 05 00 | ICE SKATING |
| : B [2017] 과 19 [17] 20 [10] : B [10] 20 [10] 20 [10] 20 [10] 20 [10] 20 [10] 20 [10] 20 [10] 20 [10 [| 08.03 07 06 00 | ORIENTEERING—Planned activities using |
| 08.03 04 02 00 RHYTHMS—Organized activities, usually comprised of singing games and the performance of the fundamental movements in a variety of tempos and space patterns, with musical accompaniment. | | a map for guidance and a compass for di- rection by means of which persons navi- gate cross-country from one point to another. Emphasis is on computing and adapting knowledge from an ordnance |
| 08.03 04 03 00 DRAMATIC ACTIVITIES—Activities designed to be imitative or creative in nature with or without the use of music. Activities include folk festivals, free play, mimetics, pageantry, and story plays. | 00.00.07.07.00 | survey map to determine the shortest way between two points but choosing the quickest way around high cliffs and water regions. |
| 08.03 04 03 01 Folk Festival | 08.03 07 07 00 | RIDING |
| 08.03 04 03 02 Free Play | 08.03 07 08 00 | SKIN AND SCUBA DIVING |
| | 08.03 07 09 00 | SMALL CRAFTS |
| 08.03 04 03 03 Mimetics | 08.03 07 09 01 | Boating |
| 08.03 04 03 04 Pageantry | 08.03 07 09 02 | Canoeing |
| 08.03 04 03 05 Story Play 08.03 04 03 99 Other Dramatic Activities—Include here | 08.03 07 09 03 | Rowing |
| 08.03 04 03 99 Other Dramatic Activities—Include here other organized subject matter and ex- | 08.03 07 09 04 | Sailing |
| periences emphasized in dramatics which are not listed above. (Specify.) | 08.03 07 09 99 | Other Small Crafts—Include here other organized subject matter and experiences emphasized in small crafts which |
| 08.03 05 00 00 Group Games, Contests, and Relays— Planned developmental activities which | | are not listed above. (Specify.) |
| provide opportunities for physical interac- | 08.03 07 10 00 | Snowskiing |
| tions among pupils in either cooperative or | 08.03 07 10 01 | Cross-country Skiing |
| competitive situations. The activities are | 08.03 07 10 02 | Downhill Skiing |
| developed on a progressive and sequential basis from the very simple to the complex, | 08.03 07 10 03 | Jump Skiing |
| and include duck-in-the-pond, dodge ball, | 08.03 07 11 00 | SURFING |
| partner tag, chicken fight, Indian wrestling, | 08.03 07 12 00 | WATERSKIING |
| tug-o-war, and various types of relays. | 08.03 07 99 00 | OTHER OUTDOOR RECREATIONAL ACTIV- |
| 08.03 06 00 00 Individual and Dual Sports—Planned physical activities, with high carry-over possibilities for lifetime use, generally involving | | subject matter and experiences empha- sized in outdoor recreational activities |
| participation by one or two pupils com- peting against one or two pupils in the same | Service Co. | which are not listed above. (Specify.) |
| activity according to predetermined rules. Such activities include the following, which are not defined here because of their obvious | 08.03 08 00 00 | Stunts, Tumbling, and Gymnastics—A series of activities designed to provide the pupil an opportunity to perform formal |
| and well-understood meanings. | | movements in various combinations, and to create new movements while participating |
| 08.03 06 01 00 ARCHERY | | in activities such as balancing, building |
| 08.03 06 02 00 BADMINTON | | pyramids, performing novel antics and ac- |
| 08.03 06 03 00 Bowling | | tions as an individual, with a partner, or in a group. Such activities involve vaulting over |
| 08.03 06 04 00 FENCING | | various apparatus and exercising on mats, |
| 08.03 06 05 00 GOLF | | parallel bars, a horizontal bar, rings, ropes, |
| 08.03 06 06 00 HANDBALL | | the side horse, or trampoline. Among the |
| 08.03 06 07 00 TENNIS | | activities are the following, which are not defined here because of their obvious and |
| 08.03 06 08 00 TRACK AND FIELD | | well-understood meanings. |
| 08.03 06 09 00 Wrestling | 08.03 08 01 00 | BALANCE BEAM |
| 08.03 06 99 00 OTHER INDIVIDUAL AND DUAL SPORTS- | 08.03 08 02 00 | Building Pyramids |
| Include here other organized subject | 08.03 08 03 00 | PARALLEL BARS |
| matter and experiences emphasized in individual and dual sports which are not | 08.03 08 04 00 | HORIZONTAL BARS |
| listed above. (Specify.) | 08.03 08 05 00 | RINGS |
| 08.03 07 00 00 Outdoor Recreational Activities-Plan- | 08.03 08 06 00 | Ropes |
| ned learning experiences which are usually | 08.03 08 07 00 | SIDE HORSE |
| organized as noncompetitive, voluntary, | 08.03 08 08 00 | Trampoline |
| out-of-door diversions conducted in a natu- | | |
| ral setting, often away from the school envi- ronment. Among such activities are the following, which are not defined here be- cause of their obvious and well-understood meanings. | 08.03 08 99 00 | OTHER STUNTS, TUMBLING, AND GYM- NASTICS—Include here other organized subject matter and experiences empha- sized in stunts, tumbling, and gymnastics which are not listed above. (Specify.) |
| | | (openy.) |

08 HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREA-TION—Continued

08.03 09 00 00 Team Sports—Planned physical activities involving relatively complex rules and strategy in which success is partially determined by the degree of group cooperation in competing successfully against comparable opponents in the same activity according to predetermined rules. Such learning experiences and activities include the following which are not defined here because of their obvious and well-understood meanings.

08.03 09 01 00 BASEBALL 08.03 09 02 00 BASKETBALL 08.03 09 03 00 **CROSS COUNTRY** 08.03 09 04 00 CURLING 08.03 09 05 00 FIELD HOCKEY 08.03 09 06 00 FOOTBALL 08.03 09 07 00 ICE HOCKEY 08.03 09 08 00 LACROSSE 08.03 09 09 00 SOCCER 08.03 09 10 00 SOFTBALL 08.03 09 11 00 SPEED-A-WAY 08.03 09 12 00 SPEEDBALL 08.03 09 13 00 VOLLEYBALL WATER POLO 08.03 09 14 00 08.03 09 99 00

08.03 09 99 00

OTHER TEAM SPORTS—Include here other organized subject matter and experiences emphasized in team sports which are not listed above. (Specify.)
08.03 99 00 00

Other Physical Education—Include here

Other Physical Education—Include here other organized subject matter and experiences emphasized in physical education which are not classifiable or listed above. (Specify.)

08.04 00 00 00 RECREATION

Subject matter and experiences organized as an integral part of both the planned instructional program and the cocurricular and recreational program. When these activities are taught in areas such as science, music, physical education, English language arts, or mathematics, they are part of the instructional program. When they are voluntary, school sponsored and supervised, and generally not for credit, they become part of the cocurricular and recreational activities program. The following recreational and cocurricular activities are frequently emphasized. (Outdoor Recreation, Performing Arts, Drama, Music, Physical Recreation, and Voluntary Service are not defined because of their obvious and well-understood meanings.)

08.04 01 00 00 Arts and Crafts—Instruction designed to provide pupils with opportunities for creative expression and communication in which one's hands are used to translate culture and personality into objects of reality for personal satisfaction, and to develop an appreciation for well-designed objects, e.g., sculpturing, weaving, potterymaking, whittling, metalworking, leathercraft, and clay modeling.

08.04 02 00 00 Communicative Arts—Reading, writing, speaking, and language activities which offer both personal enjoyment and creative experiences, e.g., the Great Books Program, reading for others, personal improvement reading, business and letter writing, crea-

tive and technical writing, poetry, public speaking, foreign language clubs, and discussion groups.

08.04 03 00 00 Hobbies—Recreation activities which are happily pursued with great interest over a sustained period of time. Although basically an individual pursuit, they can and often do lead to group and club participation. Hobbies are as varied as the field of human interest and experience but usually can be encompassed under four categories: collecting (coins, stamps, insects, autographs); creating (writing, home mechanics, gardening, painting, designing, photography); educational (astronomy, ornithology, mineralogy, horticulture); and performing (sports,

music, hiking).
08.04 04 00 00 Outdoor Recreation
08.04 05 00 00 Performing Arts

DANCE—A form of expression through movement in response to rhythm. Through a variety of forms it is planned to provide pleasure and satisfaction as a social and creative activity, e.g., folk, square, social, modern, mixers, creative rhythms, tap, clog, and ballet. It may be conducted on an individual or group basis.

08.04 05 02 00 DRAMA 08.04 05 03 00 Music 08.04 05 99 00 OTHER I

08.04 05 01 00

OTHER PERFORMING ARTS—Include here other organized subject matter and experiences emphasized in performing arts which are not listed above. (Specify.)

08.04 06 00 00 Physical Recreation
08.04 07 00 00 Voluntary Service
08.04 99 00 00 Other Recreation—Include here other organized subject matter and experiences emphasized in recreation which are not listed

above. (Specify.)

HOME ECONOMICS

09.00 00 00 00

Home economics comprises the group of related courses or units of instruction organized for purposes of enabling pupils to acquire knowledge and develop understanding, attitudes, and skills relevant to (a) personal, home, and family life, and (b) occupational preparation using the knowledge and skills of home economics. The subject matter of home economics includes, in addition to that which is unique to the area, concepts drawn from the natural and social sciences and the humanities.

The Ad Hoc committee for Home Economics applied the following rationale to the selection of the items for placement in the Home Economics area: (1) the items were determined by consensus of the committee to be appropriate to home economics in terms of preparation for personal, home, and family living, and for occupational preparation; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various items classified under Home Economics were identifiable by titles which were considered to be in current use in home economics.

Opportunities to develop leadership, social and civic awareness, and increased understanding of the world of work in home economics are provided

09 HOME ECONOMICS—Continued

through the Future Homemakers of America, a youth organization for home economics pupils. As an integral part of the instructional program, pupils in this organization engage in activities that extend their interests, skills, and knowledge in many aspects of home economics. Such organized activities, under appropriate supervision, are referred to as co-curricular activities. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; they are discussed more fully in this chapter beginning on page 242. The Future Homemakers of America are identified for reporting purposes and further described under Cocurricular Activities as Item 20.01 12 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11, and in figure 2 on page 13.

The following descriptive headings identify the

various aspects of home economics.

09.01 00 00 00 HOMEMAKING: PREPARATION FOR PERSONAL, HOME, AND FAMILY LIVING

The courses or units of instruction in home economics which emphasize acquisition of knowledge and the development of understanding, attitudes, and skills relevant to personal, home, and family life in the areas described below.

09.01 01 00 00 Comprehensive Homemaking or Home Economics—Instruction which derives content from a combination of the various areas of homemaking (as described by the items listed below) and emphasizes basic principles and interrelationships among these areas.

09.01 02 00 00 Child Development—The study of children—their physical, mental, emotional, and social growth and development—and their care and guidance. In practice, content draws on aspects of the social and biological sciences.

09.01 03 00 00 Clothing and Textiles—The study of clothing and textiles, including the significance of these to the individual and family, and the nature, acquisition, and uses of textiles and clothing products. Planned experiences in the selection, construction, maintenance, and alteration of clothing and other textile products are usually provided.

09.01 04 00 00 Consumer Education—(For definition see 15.05 00 00 00 Consumer Education under SOCIAL SCIENCES/SOCIAL STUDIES.) Emphasis in home economics will be on consumer education as it relates to management of a home and to the welfare of family members.

09.01 05 00 00 Family Health—The study of related aspects of health in family living with special emphasis on nutrition, emotional health, the relationship of the health of an individual to the well-being of the family, the

prevention of illness, and the management and elementary skills involved in caring for the ill and convalescent in the home.

09.01 06 00 00 Family Relations—The study of the nature, functions, and significance of human relationships in the family. The subject matter includes concepts and principles related to various family living conditions, the establishment and maintenance of relationships, and the preparation for marriage and family life. These designated aspects of family relationships emphasize the universality of families, the uniqueness of individuals and families, the development and socialization of the individual, and meeting the variety of needs and interests of family members.

09.01 07 00 00 Foods and Nutrition—The study of food and its role in personal and family living, including the basic principles of health, food management, and economics. In practice, emphasis is frequently placed on meal management as a means of understanding the significance and nature of food, its care, and its preparation for individuals and families.

09.01 08 00 00 Home Management—The study of the complexities and processes involved in formulating goals, making decisions, and effectively using and controlling human and other resources for establishing and maintaining a home and family. The subject matter provides for a variety of home management considerations, such as the societal and economic influences on individual and family management, values, goals and standards, family economics, and the organization of activities in the home.

09.01 09 00 00 Housing and Home Furnishings—The study designed to develop judgment needed for creating a favorable environment for family living. Attention is given to a complex of housing and home furnishing considerations including the influence of housing on people; types and costs of housing; interior design; the care, maintenance, and improvement of homes and furnishings; and the relation of resources to family needs.

09.01 99 00 00 Other Homemaking—Include here other organized subject matter emphasized in homemaking which is not listed above. (Specify.)

09.02 00 00 00 OCCUPATIONAL PREPARATION

The courses or units of instruction emphasizing the acquisition of competencies needed for getting and holding a job and/or preparing for advancement in an occupational area using home economics knowledge and skills. Instructional content is selected from home economics subject areas to meet the unique requirements in specific occupations and is coordinated with appropriate field, laboratory, and work experience. Occupations include those which provide (1) services to families in the home and similar services to others in group situations; (2) assistance to professional home economists and professionals in fields related to home economics in industries, agencies, and organizations; and (3) other services and/or assistance directly related to one or more home economics subject-matter areas. (Included as 16.05 00 00 00 Home Economics-related Technology under TECH-NICAL EDUCATION)

09 HOME ECONOMICS—Continued

09.02 01 00 00 Care and Guidance of Children—Preparation for various kinds of employment related to child care centers and young children, e.g., assisting directors of child daycare centers or nursery schools, assisting with activities on playgrounds and in recreation centers, and caring for children in homes and in such public places as stores, playgrounds, recreation centers, and transportation terminals. (Included as 16.05 01 00 00 Child Care Center Assistant, 16.05 02 00 00 Hospital Children's Division Assistant, and 16.05 03 00 00 Teacher's Assistant at the Preprimary Level under TECHNICAL

EDUCATION)

09.02 02 00 00 Clothing Management, Production, and Services—Preparation for employment concerned with clothing and textiles, e.g., fitting and altering readymade garments, custom tailoring and dressmaking, laundry-drycleaning work, demonstration work, and technical work in business and industry. (See also 17.33 00 00 00 Textile Production and Fabrication under TRADE AND INDUSTRIAL OCCUPATIONS.)

09.02 03 00 00

Food Management, Production, and Services—Preparation for various kinds of employment related to institutional and commercial food services. Employment may include workers and supervisors in hospitals, child day-care centers, homes for the elderly, and school lunch programs, and demonstrators and technicians in food industries. (Included as 16.05 04 00 00 Food Service Supervisor under TECHNICAL EDUCATION) (See also 04.07 00 00 00 Food Services under DISTRIBUTIVE EDUCATION, and 17.29 00 00 00 Quantity Food Occupations under TRADE AND INDUSTRIAL OCCUPATIONS.)

09.02 04 00 00

Home Furnishings, Equipment, and Services—Preparation for various kinds of employment related to home furnishings and/or equipment. It includes assisting purchasers in the selection of suitable home furnishings and/or equipment, assisting interior decorators, and custom-making of curtains, draperies, slip covers, and similar items. (Included as 16.05 05 00 00 Interior Decorator Assistant and 16.05 06 00 00 Home Equipment Demonstrator under TECHNICAL EDUCATION) (See also 04.10 00 00 00 Home Furnishings under DISTRIBUTIVE EDUCATION.)

09.02 05 00 00

Institutional and Home Management and Supporting Services—Preparation for various kinds of employment related to institutional and home management services. These include homemaker-home health aides, assistants to homemakers, management aides in public housing, institutional housekeeping, executive housekeeping, and hotel and motel housekeeping.

09.02 99 00 00

Other Occupational Preparation—Include here other aspects of occupational preparation not included above. (Specify.)

INDUSTRIAL ARTS 10.00 00 00 00

Industrial Arts is the body of related subject matter, or related courses, organized for the development of understanding about the technical, consumer, occupational, recreational, organizational, managerial, social, historical, and cultural aspects of industry and technology. Learning experiences involve activities such as experimenting, designing, constructing, evaluating, and using tools, machines, materials, and processes which provide opportunities for creativity and problem solving.

The Ad Hoc Committee for Industrial Arts applied the following rationale to the selection of the items for placement in the Industrial Arts subject-matter area: (1) the items were determined by consensus of the committee to be appropriate to the area; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various items classified were identifiable by titles which are considered to be most commonly used in current

practice in industrial arts.

Opportunities to develop leadership, social and civic awareness, and increased understanding of industry and technology are provided through a student organization such as the Industrial Arts Student Club. As an integral part of the instructional program, students engage in activities that extend their interests, skills, and knowledge in selected aspects of industrial arts. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; they are discussed more fully in this chapter beginning on page 242. The Industrial Arts Student Club is identified for reporting purposes and further described under Cocurricular Activities as Item 20. 01 15 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and

in figure 2 on page 13.

Included in this subject-matter area are the items of information which identify various aspects of industrial arts.

10.01 00 00 00 CONSTRUCTION

The study of the technology and the socio-economic contributions of those industries concerned with residential, industrial, and transportation structures. Learning activities, which are usually centered around scaled structures, involve research, design, engineering, masonry, carpentry, electricity, and plumbing.

10.02 00 00 00 CRAFTS (INDUSTRIAL)

A category of information and skills concerned with handcrafts and the craft industry, including the tools, materials, processes, products, and occupations of the industry. Subject matter and learning experiences are organized under various descriptive titles such as Art Metals, Ceramics, Crafts (Industrial), Industrial Crafts, Leather, Textiles, and other crafts (industrial).

10.02 01 00 00 Art Metals—The study of metals which are used in the manufacture or fabrication of ornamental products. Learning experiences generally include experimenting, designing, constructing, and evaluating art metal products.

10.02 02 00 00 Ceramics—The study of the tools, materials, and industrial processes involved in the manufacture of products made from non-metallic resources such as rocks, clay, glass, and sand, and the various types and uses of ceramic products. Learning experiences generally include experimenting, designing, constructing, and evaluating ceramic products.

10.02 03 00 00 Crafts (Industrial)—The study of craft industries including the tools and processes used to produce craft products from a wide variety of materials such as ceramics, leather, rocks, fibers, metals, and woods. Learning experiences generally include experimenting, designing, constructing, and evaluating useful products with emphasis on industrial applications.

10.02 04 00 00 Industrial Crafts—(See Crafts (Industrial)).

10.02 05 00 00 Leather—The study of leather and related materials including the tools and processes used to produce leather products. Learning experiences generally include experimenting, designing, constructing, and evaluating products.

10.02 06 00 00 Textiles—The study of the tools, materials, and processes used in the textile industry including the source, preparation, and applications of fibers. Learning experiences generally include experimenting, designing, weaving, and evaluating products made of a variety of fibers.

10.02 99 00 00 Other Crafts (Industrial)—Include here other organized subject matter and learning situations emphasized in crafts which are not listed above. (Specify.)

10.03 00 00 00 DRAFTING

A category of information and skills concerned with conveying ideas or illustrations graphically through drawings, charts, sketches, maps, and graphs, and the related factors such as the role of drafting in history and industry. Subject matter and learning experiences are organized under various descriptive titles such as Architectural Drafting, Descriptive Geometry, Drafting, Drafting Technology, Engineering Drawing, Industrial Design, Mechanical Drawing, Technical Illustration, and other drafting. (See also 17.13 00 00 00 Drafting Occupations under TRADE AND INDUSTRIAL OCCUPATIONS.)

10.03 01 00 00 Architectural Drafting—The study of the means of communicating, through lines and symbols, information about buildings. Learning activities include the development of preliminary sketches, plans, elevations, sections, and detail drawings, and the study of architectural design, the history of structures, building ordinances, and building materials.

10.03 02 00 00 Descriptive Geometry—The study of the representation of points, lines, and surfaces by accurate orthographic drawing and the graphical solution of problems according to form and position in space.

10.03 03 00 00 Drafting—The study of the communication of ideas through drawings, sketches,

charts, graphs, and maps. Learning experiences include the development of skills through the use of drafting instruments involved in lettering, sketching, geometric construction, orthographic and pictorial drawing, auxiliaries, sections, and working drawings.

10.03 04 00 00 Drafting Technology—The study of graphic representation with special emphasis on technical requirements, specifications, and standards.

10.03 05 00 00 Engineering Drawing—A study of the communication of ideas through lines, symbols, and drawings depicting the mechanical details associated with machine parts, including machine design. Learning activities involve the use of technical drawing instruments and techniques.

10.03 06 00 00 Industrial Design—The study of industrial products with special consideration being given to (1) esthetics and the appropriate use of industrial materials and processes, and (2) their value to society. Learning activities involve the development of skills and creative abilities in the use of media for conveying ideas graphically. (See also 02.02 03 02 00 Industrial Product Design under ART.)

10.03 07 00 00 Mechanical Drawing—A study of the communication of ideas through lines, symbols, and drawings. Learning activities involve the use of technical drawing instruments to convey ideas graphically, e.g., orthographic projection, pictorial views, and assembly drawings.

10.03 08 00 00 Technical Illustration—The study of the techniques of presenting information graphically, including schematics, sections, exploded views, and other techniques which illustrate or clarify verbal or written description.

10.03 99 00 00 Other Drafting—Include here other organized subject matter and learning situations emphasized in drafting which are not listed above. (Specify.)

10.04 00 00 00 ELECTRICITY/ELECTRONICS

A category of information and skill concerned with electrical energy including theory, applications, and control as they relate to electrically powered equipment, to various kinds of communications equipment, and to related factors such as occupations, economics, and consumer information. Subject matter and learning experiences are organized under various descriptive titles such as Electricity, Electricity/Electronics, Electronics, and other electricity/electronics. (See also 17.14 00 00 00 Electronics Occupations, and 17.15 00 00 00 Electronics Occupations under TRADE AND INDUSTRIAL OCCUPATIONS.)

10.04 01 00 00 Electricity—The study of sources, and measurement, control, and applications of electrical energy as used for heating, power, and illumination, as well as some elementary aspects of the use of electrical energy for communication as in devices such as the telegraph, telephone, and radio. Learning activities include demonstration of, experimenting with, designing, constructing, and testing electrical devices.

10.04 02 00 00 Electricity/Electronics—The study of sources, measurement, control, and applications of electrical energy in devices such as those used in heating, power, and illumination, as well as those used in communications, e.g., the telegraph, telephone,

radio, television, radar, and computers. Learning activities include demonstration of, experimenting with, designing, constructing, and testing electrical devices.

10.04 03 00 00

Electronics—The study of the measurement, control, and applications of electrical energy in devices used for communication such as the telegraph, telephone, radio, television, radar, and computers. Learning activities include demonstration of, experimenting with, designing, constructing, and testing electrical devices.

10.04 99 00 00

Other Electricity/Electronics—Include here other organized subject matter and learning situations primarily related to and emphasized in electrical energy which are not listed above. (Specify.)

10.05 00 00 00

SCHOOL INDUS-ELEMENTARY TRIAL ARTS

That phase of the elementary school curriculum which provides the child with opportunities for exploration, manipulation, experimentation, planning, and using tools, materials, and techniques appropriate to converting materials to serve useful purposes. Planned activities and experiences include (1) the construction of projects related to and reinforcing the elementary school subject matter, and (2) an introductory study of industry.

10.05 01 00 00

Industrial Arts in the Elementary School (Grades or Years K-4)—Basic experiences in industrial arts used to reinforce the instructional program for the grades or years kindergarten through four. Activities include working with tools and materials and are designed to help pupils (1) improve communica-tion skills by means of experience charts; (2) discover concepts of construction of objects using many materials; (3) apply industrial arts experiences to varied aspects of subject matter; (4) discover and explore interests and talents; and (5) develop concepts of preplanning and organizing learning activities.

10.05 02 00 00

Intermediate Industrial Arts Program (Grades or Years 5 and 6)—Subject matter and experiences in industrial arts which are planned to utilize maximally pupils' desires to formulate ideas and design and engage in constructional project activities. Instruction emphasizes the development of fundamental tool skills and knowledge in basic industrial arts and is designed to relate to and supplement learning in the various subject-matter areas.

10.05 99 00 00

Other Elementary School Industrial Arts-Include here other organized subject matter and experiences emphasized in elementary school industrial arts which are not listed above. (Specify.)

10.06 00 00 00

GENERAL INDUSTRIAL ARTS (FOR-MERLY GENERAL SHOP)

The study of two or more separate and somewhat distinct aspects of industry and technology. Learning experiences involve activities such as experimenting, designing, constructing, evaluating, and using a variety of tools, materials, and processes.

10.07 00 00 00

GRAPHIC ARTS

The study of information and skills concerned with graphic reproduction, as well as related factors such as occupations, eco-

nomics, and consumer information. Subject matter and learning experiences are organized under various descriptive titles such as Graphic Arts, Photography, Photolithography (Photo-offset-lithography or lithography (Photo-offset-lithography offset), Printing, and other graphic arts.

10.07 01 00 00

Graphic Arts—The study of tools, materials, and processes of the printing industry including block printing, intaglio printing, letterpress printing, lithography, photography, rubberstamp construction, silk screen printing, thermography, type comparition and hinding I consider the printing industry in luding including in the printing industry including including in the printing industry including position, and binding. Learning experiences include designing, composing, printing, and evaluating reproduction techniques, and the study of history, economics, occupations, and consumer information related to the printing industry.

10.07 02 00 00 Photography—The study of the tools, materials, and processes used in photography with emphasis on industrial uses. Learning activities include experiences using cameras, developing negatives, and making contact prints, enlargements, and mountings.

10.07 03 00 00

Photolithography (Photo-offset-lithography or Offset)—The study of the technology of graphic reproduction from a flat surface or plate prepared photomechanically. Learning experiences include design, hot and/or cold composition, pasteup, camera and darkroom techniques pasteup, camera and darkroom techniques, platemaking, and offset presswork.

10.07 04 00 00

Printing—The study of the industry and technology involved in graphic reproduction from an inked surface—relief, intaglio, or flat. Activities include design, composition, imposition, presswork, and bindery.

10.07 99 00 00

Other Graphic Arts-Include here other organized subject matter and learning situations emphasized in graphic arts which are not listed above. (Specify.)

10.08 00 00 00 HOME MECHANICS

The study of the tools, materials, and processes involved in the upkeep and repair of the home, its equipment, and devices. Learning activities are centered around typical problems encountered by the homeowner and include simple maintenance, repairs, and construction.

10.09 00 00 00

INDUSTRIAL ARTS MATHEMATICS (For definition see 11.05 03 00 00 Shop Mathematics under MATHEMATICS.)

10.10 00 00 00

INDUSTRIAL ARTS SCIENCE (AP-PLIED CHEMISTRY)

A body of selected subject matter which is sometimes referred to as Practical or Industrial Chemistry. The subject matter is introductory in nature and is designed primarily for nonscience-oriented pupils in vocational and technical instructional programs. It is usually descriptive, less quantitative, and less theoretical than other chemistry courses. The topics are technological istry courses. The topics are technological in orientation and are usually selected for applications in industry and technology. (See also Major Aspects of the Physical Sciences, 13.03 00 00 00 Physical Sciences, under NATURAL SCIENCES.)

10.11 00 00 00

INDUSTRIAL ARTS SCIENCE (APPLIED PHYSICS)

A technologically or industrially oriented physics course in which the subject matter is less quantitative and theoretical than regular secondary school physics. Although laboratory exercises are an important part of the course they are usually more of the

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"follow-the-direction" type having practical applications. Applied physics is sometimes offered in junior college, technical, and vocational education instructional programs. (See also Major Aspects of the Physical Sciences, 13.03 00 00 00 Physical Sciences, under NATURAL SCIENCES.)

10.12 00 00 00 INDUSTRIAL MATERIALS ANI PROCESSES

A category of information and skills concerned with industrial-technical materials and processes including their properties and utilization as they are fabricated into usable products. Subject matter and learning experiences are organized under various descriptive titles such as Fluid Power, Industrial Materials, Industrial Materials and Processes, Industrial Processes, Instrumentation, Numerical Control, and other industrial materials and processes.

10.12 01 00 00 Fluid Power—The study of hydraulics and pneumatics, including power conversion, transmission, and utilization in both stationary and mobile installations.

10.12 02 00 00 Industrial Materials—The study, analysis and testing of industrial materials, e.g., metals, hydrocarbons, wood, finishes, plastics, and earth materials, chemical composition, physical and mechanical properties, fabrication limitations, and performance when exposed to a normal industrial and commercial environment.

10.12 03 00 00 Industrial Materials and Processes— The study of the properties and utilization of industrial materials as they are fabricated into usable products, including a study of the utilization and control of the power necessary to efficiently process materials.

10.12 04 00 00 Industrial Processes—The study of the methods whereby industrial materials are fabricated by hand, machine, and automated equipment to produce usable products

10.12 05 00 00 Instrumentation—The study of devices necessary to observe and control both manufacturing processes and the performance of mechanical and electrical machinery, including the science of measurement as well as the conversion and recording of physical, chemical, and mechanical state and condition into sensible information.

10.12 06 00 00 Numerical Control—The study of indus-

10.12 06 00 00 Numerical Control—The study of industrial automation in which specific commands to perform desired machine tool operations are supplied to the machine control mechanisms by means of information previously programmed by punched card, punched tape, or magnetic tape.

10.12 99 00 00 Other Industrial Materials and Processes—Include here other organized subject matter and learning situations primarily related to and emphasized in industrial materials and processes which are not listed above. (Specify.)

10.13 00 00 00 MANUFACTURING

The study of the technology and the socioeconomic contributions of industries concerned with the creation of durable consumer products. Learning experiences are developed around functions or concepts of industry and include research and experimentation, product design and development, fabrication (custom and mass), packaging, and distribution.

10.14 00 00 00 METALS

A category of information and skills concerned with metals including the products manufactured from metals; the technology employed in the production, processing, and use of metals; and related factors such as occupations, economics, and consumer information. Subject matter and learning experiences are organized under various descriptive titles such as Metals, Metal Machining (Metal Shop), Metal Technology, Sheet Metal, Welding, and other metals.

10.14 01 00 00 Metals—The study of the tools, materials, and processes used in several facets of the metals industries. Learning experiences generally include experimenting, designing, fabricating, forming, and evaluating metals and metal products.

10.14 02 00 00 Metal Machining (Metal Shop)—The study of the operations and related information concerned with the shaping of metals

by machine.

10.14 03 00 00 Metal Technology—The study of the problems and operations involved in the transformation of metal into usable products with special emphasis on technical information, qualities, specifications, and standards. Learning experiences include experimenting, creating, designing, constructing, and evaluating metal products.

10.14 04 00 00 Sheet Metal—The study of the operations, problems, and related information concerned with forming and fabricating sheet metal products.

10.14 05 00 00 Welding—The study of the operations used in cutting and fabricating metal products by welding techniques.

10.14 99 00 00 Other Metals—Include here other organized subject matter and learning situations primarily related to and emphasized in metals which are not listed above. (Specify.)

10.15 00 00 00 PLASTICS

A category of information and skills concerned with the production, processing, and uses of plastics, and related factors such as occupations, economics, and consumer information. Subject matter and learning experiences are organized under various descriptive titles such as Plastics, Plastics Technology, and other plastics.

10.15 01 00 00 Plastics—The study of the tools, materials, and processes used in several facets of the plastics industry. Learning experiences include experimenting, designing, machining, fabricating, forming, and evaluating plastics and plastic products.

10.15 02 00 00 Plastics Technology—The study of the problems and operations involved in the manufacture and transformation of plastics into usable products with special emphasis on technical information, qualities, specifications, and standards. Learning experiences include experimenting, creating, designing, fabricating, forming, and evaluating plastic products.

10.15 99 00 00 Other Plastics—Include here other organized subject matter and learning situations primarily related to and emphasized in plastics which are not listed above. (Specify.)

10.16 00 00 00 POWER/AUTOMOTIVE MECHANICS

A category of information and skills concerned with the various forms of power, including its generation, transmission, and utilization. Subject matter and learning



experiences are organized under various descriptive titles such as Automotive Mechanics, Power and Automotive Mechanics, Power Mechanics, Transportation, and other power and automotive mechanics. (See also 16.01 04 00 00 Automotive Technology under TECHNICAL EDUCA-TION, and 17.03 00 00 00 Automotive Services under TRADE AND INDUS-TRIAL OCCUPATIONS.)

10.16 01 00 00

Automotive Mechanics-The study of the operating principles, design, construc-tion, maintenance, and repair of automobiles and similar power sources, including developing understanding of related physical and chemical principles.

10.16 02 00 00

Power/Automotive Mechanics-The study of the technology involved in harnessing and controlling power, including its source, generation, transmission, and utiliz-ation, with specific emphasis on the automobile as a device of power conversion, transmission, and utilization.

10.16 03 00 00

Power Mechanics—The study of the development, transmission, and utilization of power, including the theory, maintenance, and servicing of machines and devices for the conversion of power into useful forms. Methods and devices for the transmission of power and output machinery for utilizing power are emphasized.

10.16 04 00 00

Transportation-The study of operating principles, design, construction, main-tenance, and repair of transportation devices, e.g., automobiles, airplanes, trains, and boats, including an understanding of related physical and chemical principles.

10.16 99 00 00

Other Power/Automotive Mechanics-Include here other organized subject matter and learning situations primarily related to and emphasized in power and automotive mechanics which are not listed above. (Specify.)

10.17 00 00 00

RESEARCH AND DEVELOPMENT

The study of industrial-technical problems, including provisions for individual or group investigations of problems and opportunities to evaluate their solutions by designing, constructing, and testing pro-

10.18 00 00 00

SERVICE INDUSTRIES

The study of the technology of industries concerned with the maintenance and repair of consumer and/or industrial products. Learning experiences involve diagnosing, adjusting, replacing, rebuilding, installing, testing, or refinishing these products. Usually, the problems of small service business management and human relations business management and human relations are included for study.

10.19 00 00 00

WOODS

A category of information and skills concerned with woods, including various manufactured wood products, the technology employed in the manufacture and construction of products using woods, and related factors such as occupations, economics, and consumer information. Subject matter and learning experiences are or-ganized under various descriptive titles such as Woods, Woods Technology, and other woods

10.19 01 00 00 Woods-The study of the tools, materials, and processes used in the woods industries.

Learning experiences usually include experimenting with, designing and constructing wood products, and evaluating woods and wood products, and evaluating woods and wood products, using the tools, materials, and processes related to these industries. The study of such factors as techniques, economics, and consumer information relating to these industries is emphasized.

10.19 02 00 00

Woods Technology-A study of the woods manufacturing industries and the technology involved in the construction of buildings and the manufacture of articles made from wood and wood products. Learning experiences include experimenting with, designing, constructing, operating, and evaluating industrial tools, processes, forest products, and related synthetic materials.

10.19 99 00 00

Other Woods-Include here other organized subject matter and learning situations primarily related to and emphasized in woods which are not listed above. (Specify.)

10.99 00 00 00

OTHER INDUSTRIAL ARTS

Include here other organized subject matter and learning situations emphasized in industrial arts which are not listed or classifiable in one of the above major categories. (Specify.)

MATHEMATICS 11.00 00 00 00

Mathematics comprises the body of related subject matter, or the body of related courses, organized for carrying on learning experiences concerned with the science of relations existing between quantities (magnitude) and operations and the science of methods used for deducing from other quantities, known or supposed, the quantities sought.

The Ad Hoc Committee for Mathematics applied the following rationale to the selection of the items for placement in the Mathematics area: (1) the items selected and classified were determined by consensus of the committee to include the aspects of mathematics most commonly taught in the United States; (2) the various aspects of subject matter selected for classification could be defined in brief form using only salient descriptive elements; and (3) the items were identifiable by titles which were considered to be most commonly used in current practice in mathematics.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of mathematics as an integral part of the instructional program. As an example, the Mathematics Club provides additional opportunities to explore interests, apply various acquired skills, and increase knowledge about different aspects of mathematics. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the Mathematics Club is identified for reporting purposes under Cocurricular Activities as Item 20.01 20 00 00.

11 MATHEMATICS—Continued

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples, see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations on these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included in this subject-matter area are the items of information which identify various subjects in the mathematics area.

11.01 00 00 00 ELEMENTARY - SCHOOL MATHE-MATICS (K-6)

Mathematics subject matter, designed for the elementary school, which usually is concerned with the study of various aspects of arithmetic, informal algebra, and informal geometry. An overall goal is understanding accompanied by reasonable efficiency in both the computational and applicational phases of mathematics. Toward this end certain emphases permeate all topics and all grade levels. Among these are (1) the use of manipulative and pictured materials to clarify ideas and to build meanings; (2) recognition of the role of mathematics in real life and its use in problem solving situations; (3) the rationale of the decimal numeration system and of the algorithms of the operations; (4) the relationships which exist within a single operation, between two operations, and among the four operations; (5) the continuous development of the concepts which are basic to any topic studied, from the simplest beginnings to whatever extensions and expansions are consistent with the learner's ability to comprehend; (6) provision for prerequisite learnings for later topics; (7) the use of methods which will interest, stimulate, and motivate the pupil; and (8) appropriate adjustments for variations in the abilities of pupils.

In practice, the subject matter usually is organized on a spiral plan. By means of this plan pupils study the same subject-matter topic two or more years or grade-placement levels, each time at a higher level of difficulty. Generally included in the K-6 mathematics program are the following topics:

involving whole and rational numbers

(Indicate the topics emphasized.)

| 11.01 00 01 00 | Sets, number, numerals |
|----------------|--|
| 11.01 00 02 00 | Cardinal number, ordinal number |
| 11.01 00 03 00 | Place value as related to numeration systems with emphasis on the decimal system |
| 11.01 00 04 00 | Number systems: whole numbers, integers, and rationals |
| 11.01 00 05 00 | Basic operations: addition, subtraction, multiplication, division, and factoring (e.g., halving) |
| 11.01 00 06 00 | Variables: frames, letters, and other symbols |
| 11.01 00 07 00 | Properties of operations on: whole numbers, integers, and rationals |
| 11.01 00 08 00 | The rationale of computation: algorithms |

Ratio: proportion, percent

11.01 00 09 00

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11.01 00 10 00 Prime and composite numbers: factors and multiples 11.01 00 11 00 Order relations: equality and inequality 11.01 00 12 00 The number line 11.01 00 13 00 Measurement, e.g., units of measurement, nature of measurement, length, area, perimeter, and volume Informal geometry, e.g., form and pat-tern as observed in the physical world, 11.01 00 14 00 intuitive development of such concepts as geometrical point, line, line segment, ray, angle, simple closed curve, plane, polygons, and space figures Informal algebra: number sentences, 11.01 00 15 00 formulas, graphing, and a number 11.01 00 99 00 OTHER ELEMENTARY-SCHOOL MATHE-MATICS TOPICS—Include here other topics emphasized in elementary-school mathematics which are not listed above. (Specify.) **MATHEMATICS** 11.02 00 00 00 (7TH AND 8TH **GRADES)** Mathematics subject matter designed for the junior high school and concerned with extending the various aspects of arithmetic, algebra, and informal geometry taught in the elementary school. There are also more advanced topics introduced on an informal basis. Emphasis is on (a) expanding the topics studied in the elementary school and introducing advanced topics consistent with the learners' ability to comprehend, (b) the application of mathematics, (c) methods of problem solving, and (d) metric and nonmetric geometry. 11.02 01 00 00 Arithmetic-The following topics in arithmetic are usually included in mathematics for grades 7 and 8: (Indicate the topics emphasized.) 11.02 01 01 00 System of numeration in base ten, possibly contrasting it with other bases 11.02 01 02 00 Rationale of the computational processes 11.02 01 03 00 Nature and properties of the systems of numbers, e.g., natural numbers, whole numbers, integers, rational numbers, and real numbers 11.02 01 04 00 Representation of numbers by terminating and nonterminating decimal frac-11.02 01 05 00 Very large and very small numbers. scientific notation, approximation, and precision 11.02 01 06 00 Ratios, proportions, and percents 11.02 01 99 00 OTHER ARITHMETIC TOPICS-Include here other topics emphasized in arithmetic for grades 7 and 8 which are not listed above. (Specify.) 11.02 02 00 00 Geometry-The following topics in geometry are usually included in mathematics for grades 7 and 8: (Indicate the topics emphasized.) Lines, angles, triangles, polygons, circles, and solids; calculation of perimeters, 11.02 02 01 00 areas, and volumes of polygons, circles, 11.02 02 02 00 Measurements, e.g., length, area, angles, volume, and weight, including metric measurement 11.02 02 03 00 Similarity and congruence of polygons

11.02 02 04 00

11.02 02 05 00

Parallelism and perpendicularity

Uses of various instruments, including

the straightedge, protractor, and com-

pass for constructing geometric figures

| 11 MATHEMATICS—Contin | nued | 11.03 | 00 07 | 00 | Introduction to the real numbers (di- |
|---|---|---------|---------|-----|---|
| 11.02 02 06 00 Construction of g | geometric models | 11.03 | 00 08 | 00 | rected numbers) Addition and multiplication of reals |
| 11.02 02 07 00 Nonmetric geome | | 11.03 | | | Additive inverses (opposites) and multi- |
| 것 이번, 그렇지만 교육되기 없으면 맛이 먹어 살아보니 그 그 그렇게 하지 않는데 이번에 가지를 가지 않는데 되었다. | Y TOPICS—Include here | 11.00 | 00 07 | 00 | plicative inverses, (reciprocals) |
| other topics empl grades 7 and 8 wh | hasized in geometry for nich may be identified in | 11.03 | 00 10 | 00 | Inverse operations (subtraction and division of reals) |
| the list under 11. | .12 00 00 00 Geometry. | 11.03 | 00 11 | 00 | Evaluating algebraic expressions |
| not appear in the Geometry. (Specify | ics emphasized that do ne list above or under y.) | 11.03 | 00 12 | 00 | Field properties of the real number system |
| 1.02 03 00 00 Algebra and Sta | tistics—The following ad statistics are usually | 11.03 | 00 13 | 00 | Order and the real numbers, the number line |
| | atics for grades 7 and 8: | 11.03 | | | Absolute value and distance on the number line |
| graphs | constructing statistical | 11.03 | | | Graphs on the number line: simple equa- tions and inequalities in one variable |
| 1.02 03 02 00 Representing num | | 11.03 | | | Open sentences and their solution sets |
| 1.02 03 03 00 Operations with s | | 11.03 | 00 17 | 00 | The real number system as an ordered field |
| 1.02 03 04 00 Formulas, includi | ing those used in meas- | 11.03 | 00 18 | 00 | Deductive organization, postulates, proof |
| urement and po | | 11.03 | | | Equivalent expressions, simplifying, ex- |
| | s, and real numbers | 22.00 | | - 4 | panding, and factoring |
| 1.02 03 06 00 Graphs on num plane; of simp equalities | ber line and number ple equalities and in- | 11.03 | 00 20 | 00 | Equivalent equations and equivalent inequalities |
| 1.02 03 99 00 OTHER ALGEBRA | AND STATISTICS TOPICS ther topics emphasized | 11.03 | 00 21 | 00 | Equivalent expressions containing fractions |
| in algebra and stat which may be ide | tistics for grades 7 and 8 entified in the list under | 11.03 | | | Equations containing fractions; ratio, proportion |
| 00 00 Probability | Algebra and/or 11.15 00 and Statistics. Also, in- | 11.03 | | | Sets and set notation; subsets, inter- section, union |
| appear in the list | phasized that do not above or under <i>Algebra</i> ! Statistics. (Specify.) | 11.03 | | | Sets of ordered pairs; Cartesian products: relations; functions |
| 1.03 00 00 00 ALGEBRA | | 11.03 | | | The number plane lattice (of integers) |
| | of mathematics subject | 11.03 | | | The number plane |
| matter concerned primarily with the | (through high school) properties of number | 11.03 | 00 27 | 00 | Graphs on the number plane and the number plane lattice: equations and inequalities |
| the complex number | eal number system and r system. Although the hool algebra has been | 11.03 | 00 28 | 00 | Simultaneous (systems of) equations and inequalities |
| expanded in the dir | ection of structure (in- | 11.03 | 00 29 | 00 | Quadratic equations and inequalities |
| cluding proof), man | ipulative skills are em- | 11.03 | 00 30 | 00 | Discriminant of a quadratic |
| | gh school courses topics s, and integral domains | 11.03 | 00 31 | 00 | Constant functions |
| | the various kinds of | 11.03 | 00 32 | 00 | Linear functions |
| fields have also been | introduced. Topics se- | 11.03 | 00 33 | 00 | Quadratic functions |
| lected from the fo | llowing list (11.03.00 | 11.03 | 00 34 | 00 | Variation |
| | 3 00 99 00), as well as slow, may serve to de- | 11.03 | 00 35 | 00 | The positive integers |
| scribe the instruction | nal content of algebra— | 11.03 | 00 36 | 00 | The integers |
| first-year, second-y | rear, third-year, and | 11.03 | 00 37 | 00 | Mathematical induction |
| other algebra. | | 11.03 | 00 38 | 00 | The rationals |
| | description of the sub- | 11.03 | 00 39 | 00 | Positive integral exponents |
| ject matter select in follow.) | from the topics which | 11.03 | 00 40 | 00 | Integral exponents |
| | a description of the | 11.03 | | | Word problems |
| | t from the topics which | 11.03 | | | Systems of equations (3 and 4 variables) |
| follow.) | area representation | 11.03 | | | Upper and lower bounds |
| ject matter select i | description of the sub- from the topics which | 11.03 | | | Least upper bound and greatest lower bound |
| follow.) | · | 11.03 | | | Well-ordering principle |
| 03 00 01 00 Symbols and the and numbers)03 00 02 00 Variables | ir referents (numerals | 11.03 | | | Completeness and the real number sys- tem as a complete ordered field Radicals |
| | (onen sentences) and | 11.03 | | | |
| statements | (open sentences) and | 11.03 | | | Square root and decimal approximations |
| | sions and algebraic ex- | 11.03 | | | Rational exponents |
| pressions | angebruie ex- | 11.03 | | | Equations involving radicals Formulas |
| .03 00 05 00 Symbols for grou | ping and conventions | | | | |
| for omitting the | m | 11.03 (| | | Scientific notation |
| | es; indicated sums and | 11.03 | | | Sequences |
| products; polyn | omiais | 11.03 | 00 54 (|)0 | Continued sums and Σ-notation |
| | | | | | |



| 11 MATHEM | IATICS—Continued | 11.04 00 05 00 | Circular functions: solution of triangles, trigonometric functions and their |
|---|--|----------------|--|
| 11.03 00 55 00 | Continued products and π-notation | | graphs, analytic trigonometry, identi- ties and equations, and others |
| 11.03 00 56 00 | Difference sequences | 11.04 00 99 00 | OTHER TOPICS IN ALGEBRA AND TRIGO- |
| 11.03 00 57 00 | Arithmetic sequences (progressions) | 11.01 00 77 00 | NOMETRY (INTEGRATED)—Include here |
| 11.03 00 58 00 | Geometric sequences (progressions) | | other topics emphasized in algebra and |
| 11.03 00 59 00 | Combinations | | trigonometry (integrated) which are not |
| 11.03 00 60 00 | Permutations | | listed above. (Specify.) |
| 11.03 00 61 00 | Probability | 11.05 00 00 00 | APPLIED MATHEMATICS |
| 11.03 00 62 00 | Binomial Theorem for positive integral exponents | | Mathematics courses designed and pro- vided for study as alternatives to the se- quentially organized college-preparatory or |
| 11.03 00 63 00 | Extended Binomial Theorem | | general education mathematics courses. |
| 11.03 00 64 00 | Factor theorem | | Subject matter usually is comprised of se- |
| 11.03 00 65 00 | Remainder theorem | | lected aspects of mathematics used in practical and specialized situations in daily |
| 11.03 00 66 00 | Synthetic division | | life. The subject matter is treated under |
| 11.03 00 67 00 | Determinants | | various descriptive titles, such as: Business |
| 11.03 00 68 00 | Matrices | | Arithmetic, Consumer Mathematics, Shop |
| 11.03 00 69 00 | Vectors | | Mathematics, and other applied mathe- |
| 11.03 00 70 00 | Limits | 11 05 01 00 00 | matics. |
| 11.03 00 71 00 | Continuous functions | 11.05 01 00 00 | Business Arithmetic—The study of various aspects of arithmetic which apply par- |
| 11.03 00 72 00 | Complex numbers | | ticularly to business problems. Usually in- |
| 11.03 00 99 00 | OTHER TOPICS IN ALGEBRA—Include here | | cluded in the mathematics subject matter |
| | other topics emphasized in algebra which | | for business applications are (1) the ration- |
| 00 04 00 00 | are not listed above. (Specify.) College Algebra—(The subject matter is | | ale of computation by means of the four |
| 11.03 04 00 00 | the same as or similar to 11.03 03 00 00 | | basic operations with the rational numbers; (2) the decimal numeration system; (3) ra- |
| | Algebra—Third-year and/or 11.09 00 00 00 | | tio, proportion, and percent; (4) measure- |
| | Elementary Functions.) | | ment; (5) formulas; and (6) graphs. (In- |
| 11.03 05 00 00 | Intermediate Algebra—(The subject | | cluded as 03.05 00 00 00 Business Arithmetic |
| | matter is the same or similar to 11.03 02 00 | | or Mathematics under BUSINESS) |
| 0.0000000000000000000000000000000000000 | 00 Algebra—Second-year.) | 11.05 02 00 00 | Consumer Mathematics—The study of various applications of arithmetic, informal |
| 11.03 06 00 00 | Linear Algebra—The study of the linear operations of vector addition and multipli- | | algebra, and informal geometry which apply |
| | cation by scalars, and of transformations | | particularly to consumer problems. Usually |
| | which preserve these operations. The multi- | | included in the mathematics subject matter |
| | variable aspect of linear algebra is one of its | | for consumer applications are (1) the rationale of computation by means of the |
| | extensions of ordinary algebra. Topics such as the following are usually included: simul- | | four basic operations with real numbers; |
| | taneous linear equations, vectors, linear de- | | (2) ratio, proportion, and percent; (3) |
| | pendence, bases, dimension, geometry of | | linear, area, volume, and angular measure- |
| | lines and planes in spaces of any dimension, | | ment; (4) graphs and descriptive statistics; and (5) simple equations and formulas. |
| | convexity, inner products, orthogonal bases, linear transformations and their represen- | 11.05 03 00 00 | Shop Mathematics—The study of various |
| | tation as matrices, matrix algebra, determi- | 11.03 03 00 00 | applications of arithmetic, informal algebra, |
| | nants, eigenvalues, eigenvectors, and com- | | and informal geometry which apply par- |
| | cal forms; the standard forms of conics and | | ticularly to shop problems. Usually, the |
| | other applications. | | mathematics subject matter for shop appli- cations includes (1) the rationale of compu- |
| 11.03 99 00 00 | Other Algebra—Include here other orga- nized subject matter emphasized in algebra | | tation by means of the four basic operations |
| | which is not listed above. (Specify.) | | with real numbers; (2) linear, area, volume, |
| 77 04 00 00 00 | ALGEBRA AND TRIGONOMETRY | | and angular measurement; (3) the decimal |
| 11.04 00 00 00 | (INTEGRATED) | | numeration system; (4) informal algebra; (5) informal geometry; (6) numerical trig- |
| | An organization of subject matter fre- | | onometry; and (7) mathematical tables, |
| | quently provided for a third or fourth year | | graphs, and the slide rule. (Included as |
| | of study in a sequence of mathematics offerings. The subject matter usually is se- | | 10.09 00 00 00 Industrial Arts Mathematics |
| | lected and organized to prepare pupils, | 11 05 00 00 00 | under INDUSTRIAL ARTS.) |
| | having competency in mathematics, for the | 11.05 99 00 00 | Other Applied Mathematics—Include here other organized subject matter empha- |
| | study of calculus and analytic geometry in | | sized in applied mathematics which is not |
| | a college or other posthigh school instruc- tional program requiring proficiency in | | classified above. (Specify.) |
| | mathematics. The subject matter is es- | 11.06 00 00 00 | CALCULUS |
| | sentially college level in nature, and usually | | The study of two fundamental limits, |
| | includes topics in algebra and trigonometry | | called the derivative and the integral, and |
| | such as the following: | | their evaluation by means of a function algebra called "the calculus." Usually, three |
| 11.04 00 01 00 | Elementary functions and graphs: linear and quadratic functions, exponential | | to four semesters are required to cover the |
| | and logarithmic functions, and others | | following topics in calculus. Topics selected |
| 11.04 00 02 00 | Mathematical induction | | from the following (11.06 00 01 00 through 11.06 00 99 00), as well as topics not listed |
| 11.04 00 03 00 | Polynomials: remainder theorem, factor | | below, may be used to describe the in- |
| | theorem, synthetic theorem, and others | | structional subject matter of first-year and |
| 11.04 00 04 00 | Complex numbers | | second-year calculus. |
| | | | |



| 11 MATHEMATICS—Continued | 11.08 00 05 00 Problem solving in numerical and non- numerical situations |
|---|--|
| 11.06 01 00 00 First-year Calculus—(For a description of the subject matter select from the topics which follow.) | 11.08 00 99 00 OTHER TOPICS IN COMPUTER MATHE- MATICS—Include here other topics em- phasized in computer mathematics which |
| 11.06 02 00 00 Second-year Calculus—(For a description of the subject matter select from the | are not listed above. (Specify.) |
| topics which follow.) | 11.09 00 00 00 ELEMENTARY FUNCTIONS A body of subject matter in the calculus- |
| 11.06 00 01 00 Functions and limits, continuity | preparatory sequence which is designed to |
| 11.06 00 02 00 Derivatives and applications 11.06 00 03 00 Differentiation of polynomials: of algebraic, logarithmic, exponential, and trigonometric functions | bridge the gap from Intermediate Algebra to Calculus with Analytic Geometry—alternative to and overlapping College Algebra. The subject matter is concerned with the |
| 11.06 00 04 00 Maxima and minima | study of the elementary functions, their graphs and applications. Usually, the follow- |
| 11.06 00 05 00 Rate problems: motion in a curve, ve- | ing topics are included for study: |
| locity, and acceleration | 11.09 00 01 00 Polynomials |
| 11.06 00 06 00 The definite integral and application to areas, volumes, distributions averages, | 11.09 00 02 00 Rational and algebraic functions |
| and moments | 11.09 00 03 00 Exponential functions |
| 11.06 00 07 00 The fundamental theorem and techniques | 11.09 00 04 00 Logarithmic functions |
| of integration 11.06 00 08 00 Numerical calculus | 11.09 00 05 00 Trigonometric functions as periodic func- tions on the real number line |
| 11.06 00 09 00 Theorem of the mean and extension to | 11.09 00 06 00 Introduction to three-dimensional ana- |
| Taylor's Theorem | lytic geometry |
| 11.06 00 10 00 Indefinite sequences, series, indeterminate forms, improper integrals, and other special limits | 11.09 00 99 00 OTHER TOPICS IN ELEMENTARY FUNC- TIONS—Include here other topics empha- sized in elementary functions which are not listed above. (Specify.) |
| 11.06 00 11 00 Multivariate calculus, including partial differentiation, the differential, and multiple integrals | 11.10 00 00 00 FIRST-YEAR COLLEGE MATHEMAT- |
| Vector calculus: gradients, directional derivative, vector products, vector fields, divergence, and curl | ICS FOR ELEMENTARY SCHOOL TEACHERS The study of mathematics subject mat- |
| 11.06 00 13 00 Differential equations and applications | ter which usually includes the following topics: |
| 11.06 00 99 00 OTHER TOPICS IN CALCULUS—Include here other topics emphasized in calculus | 11.10 00 01 00 Field axioms as they are used in arithmetic |
| which are not listed above. (Specify.) | 11.10 00 02 00 Logic and its place in mathematical proof |
| 11.07 00 00 00 CALCULUS WITH ANALYTIC GEOMETRY | 11.10 00 03 00 Numeration systems and the meaning of place value |
| Usually, the study of intermediate algebra, trigonometry, and elementary functions as prerequisite to the study of calculus with analytic geometry. The integrated | 11.10 00 04 00 Use of sets and the number line in explaining the meaning of number operations |
| approach is an alternative approach to analytic geometry followed by calculus. Calculus topics are the same as those for the standard calculus course, but the analytic geometry is usually reduced to a minimum. Analytic geometry topics fre- | 11.10 00 99 00 OTHER TOPICS IN FIRST-YEAR COLLEGE MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS—Include here other topics emphasized in first-year college mathematics for elementary school teachers which are not listed above. (Specify.) |
| quently include the following: a brief intro- duction to coordinate geometry, properties of the real number line with emphasis on inequalities and absolute value, neighbor- hoods and other intervals in the line, slopes and lines, curves, functions and limits, conics, parametric representations of curves, polar coordinates, and rudiments of solid analytic geometry of curves and surfaces. | 11.11 00 00 00 GENERAL MATHEMATICS An organized body of mathematics subject matter which frequently comprises an alternative to the sequence of college-preparatory mathematics courses. In practice, a first course in general mathematics is frequently offered in the 9th grade followed by additional courses in the 10th, 11th, and/or 12th grades. The subject matter for |
| 11.08 00 00 00 COMPUTER MATHEMATICS Mathematics subject matter designed for study by pupils who plan to work closely | each course in general mathematics may be identified from among the topics listed below: |
| with computers. Consideration is given to the algorithmic approach to mathematics which enables a problem to be handled by | 11.11 01 00 00 First-year General Mathematics—(For description of the subject matter select from the following topics.) |
| a machine. A first course may include the following topics: (See also 03.17 03 00 00 Computer-oriented Mathematics (Data-processing Mathematics) under BUSINESS | 11.11 01 01 00 ARITHMETIC—The following topics in arithmetic are frequently included in general mathematics: |
| essing Mathematics) under BUSINESS.) 11.08 00 01 00 Description of the logical structure of the computer operations (not the machine) | 11.11 01 01 01 Basic concepts and skills, including notation and numeration systems and systems of natural whole re- |
| 11.08 00 02 00 Algorithms for the computer | and systems of natural, whole, ra- tional, and real numbers |
| 11.08 00 03 00 Programming languages (Fortran or Al- | 11.11 01 01 02 Applications of percentage and funda- |
| gol or others) | mental operations, e.g., interest, bor- |
| 11.08 00 04 00 Compilers | rowing and lending money, discount, |

| 11 | MAT | HEN | MATICS—Continued | | | | | systems of natural, whole, rational, and real numbers |
|-------|----------|------|--|----------------|----|----|----|---|
| | | | taxes, commissions, insurance, social security, and installment buying | 11.11 | 02 | 01 | 02 | Applications of percentage and funda- mental operations, e.g., interest, bor- |
| 11.1 | 1 01 01 | 03 | Elementary number theory: primes, factors, and composites | | | | | rowing and lending money, discount, taxes, commissions, insurance, social |
| 11.1 | 1 01 01 | 99 | Other Arithmetic Topics in First-year General Mathematics—Include here other topics in arithmetic emphasized | 11.11 | 02 | 01 | 03 | security, and installment buying Elementary number theory: primes, factors, and composites |
| -0.00 | | | in the first year of general mathematics which may be identified in the list of arithmetic topics under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not listed above or under Mathematics (7th and 8th grades) (Specify.) | 11.11 | 02 | 01 | 99 | Other Arithmetic Topics in Second-year General Mathematics—Include here other topics in arithmetic emphasized in the second year of general mathematics which may be identified in the list of arithmetic topics under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not listed above |
| 11.1 | 1 01 02 | 2 00 | GEOMETRY—Topics in geometry studied in general mathematics frequently include: | | | | | or under Mathematics (7th and 8th grades). (Specify.) |
| | 1 01 02 | | Measurement such as angular, area, length, and volume | 11.11 | 02 | 02 | 00 | GEOMETRY—Topics in geometry studied in general mathematics frequently include: |
| 11.1 | 1 01 02 | 2 02 | Use of instruments such as the straight- edge, compass, and protractor for construction of geometric figures | 11.11 | | | | Measurement such as angular, area, length, and volume |
| | 1 01 02 | | Calculation of perimeter, area, and volume | 11.11 | 02 | 02 | 02 | Use of instruments such as the straight- edge, compass, and protractor for construction of geometric figures |
| | 11 01 02 | | Construction of models: two-dimensional, three-dimensional | 11.11 | 02 | 02 | 03 | Calculation of perimeter, area, and volume |
| 11. | 11 01 02 | 2 03 | Indirect measurement including scale drawing, similar triangles, and nu- merical trigonometry | 11.11 | 02 | 02 | 04 | Construction of models: two-dimensional, three-dimensional |
| | 11 01 02 | | The Pythagorean rule and its application | 11.11 | 02 | 02 | 05 | Indirect measurement including scale drawing, similar triangles, and nu- merical trigonometry |
| 11.1 | 11 01 02 | 2 99 | Other Geometry Topics in First-year General Mathematics—Include here other topics in geometry emphasized in the first year of general mathematics which may be identified in the list of topics under 11.12 00 00 00 Geometry or in the list of geometry topics under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not included in either of these lists or above. (Specify.) | 11.11 | | | | The Pythagorean rule and its application Other Geometry Topics in Second-year General Mathematics—Include here other topics in geometry emphasized in the second year of general mathematics which may be identified in the list of topics under 11.12 00 00 00 Geometry or in the list of geometry topics under 11.02 00 00 00 Mathe- |
| 11. | 11 01 03 | 3 00 | ALCEBRA AND STATISTICS—Topics in algebra and statistics studied in general mathematics frequently include: | | | 11 | 44 | matics (7th and 8th grades), or which are not included in either of these lists or above. (Specify.) |
| 11. | 11 01 03 | 3 01 | Introduction to algebra, including sym- bols, formulas, positive and negative numbers, equations, and inequalities | 11.11 | | | | ALGEBRA AND STATISTICS—Topics in algebra and statistics studied in general mathematics frequently include: |
| 11. | 11 01 03 | 3 02 | Ratio and proportions, trigonometry of the right triangle | 11.11 | 02 | 03 | 01 | Introduction to algebra, including sym- bols, formulas, positive and negative numbers, equations, and inequalities |
| 11. | 11 01 03 | 3 03 | Calculation of mean, median, and mode | 11.11 | 02 | 03 | 02 | Ratio and proportions, trigonometry |
| 11. | 11 01 03 | 3 04 | Statistical graphs | | | | | of the right triangle |
| 11. | 11 01 03 | 3 05 | Informal numerical probability | 11.11 | | | | Calculation of mean, median, and mode |
| 11.1 | 11 01 03 | 3 99 | Other Algebra and Statistics Topics in | 11.11 11.11 | | | | Statistical graphs |
| | | | First-year General Mathematics—Include here other topics in algebra and statistics emphasized in the first year of general mathematics which may be identified in the list under 11.03 00 | 11.11 | | | | Informal numerical probability Other Algebra and Statistics Topics in Second-year General Mathematics—In- clude here other topics in algebra and statistics emphasized in the second |
| 11 1 | 11 02 00 |) 00 | 00 00 Algebra or under 11.15 00 00 00 Probability and Statistics or under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not included in these lists or above. (Specify.) Second-year General Mathematics— | | | | | year of general mathematics which may be identified in the list under 11.03 00 00 00 Algebra or under 11.15 00 00 00 Probability and Statistics or under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not included |
| | | | (For description of the subject matter select from the following topics.) | 11.11 | 03 | 00 | 00 | in these lists or above. (Specify.) Third-year General Mathematics—(For |
| 11.1 | 11 02 01 | 1 00 | ARITHMETIC—The following topics in arithmetic are frequently included in general mathematics: | 11.11 | 03 | 01 | 00 | description of the subject matter select from the following topics.) ARITHMETIC—The following topics in |
| 11. | 11 02 0 | 01 | Basic concepts and skills, including no- tation and numeration systems and | | | | | arithmetic are frequently included in general mathematics: |



| 11 MATHEMA | ATICS—Continued | 11.11 04 00 00 | Fourth-year General Mathematics— (For description of the subject matter select |
|----------------|---|--|--|
| 11.11 03 01 01 | Basic concepts and skills, including no- tation and numeration systems and systems of natural, whole, rational, and real numbers | 11.11 04 01 00 | from the following topics.) ARITHMETIC—The following topics in arithmetic are frequently included in general mathematics: |
| 11.11 03 01 02 | Applications of percentage and funda- mental operations, e.g., interest, bor- rowing and lending money, discount, taxes, commissions, insurance, social security, and installment buying | 11.11 04 01 01 | Basic concepts and skills, including no- tation and numeration systems and systems of natural, whole, rational, and real numbers |
| 11.11 03 01 03 | Elementary number theory: primes, factors, and composites | 11.11 04 01 02 | Applications of percentage and funda- mental operations, e.g., interest, bor- rowing and lending money, discount, |
| 11.11 03 01 99 | Other Arithmetic Topics in Third-year General Mathematics—Include here other topics in arithmetic emphasized | 11.11 04 01 03 | taxes, commissions, insurance, social security, and installment buying Elementary number theory: primes, |
| | in the third year of general mathematics which may be identified in the list of arithmetic topics under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not listed above or under Mathematics (7th and 8th grades). (Specify.) | 11.11 04 01 99 | other Arithmetic Topics in Fourth-year General Mathematics—Include here other topics in arithmetic emphasized in the fourth year of general mathematics which may be identified in the list of arithmetic topics under 11.02 |
| 11.11 03 02 00 | GEOMETRY—Topics in geometry studied in general mathematics frequently include: | | 00 00 00 Mathematics (7th and 8th grades), or which are not listed above or under Mathematics (7th and 8th |
| 11.11 03 02 01 | Measurement such as angular, area, length, and volume | 11.11 04 02 00 | grades). (Specify.) GEOMETRY—Topics in geometry studied |
| 11.11 03 02 02 | Use of instruments such as the straight- edge, compass, and protractor for construction of geometric figures | 11.11 04 02 01 | in general mathematics frequently include: |
| 11.11 03 02 03 | Calculation of perimeter, area, and | | Measurement such as angular, area, length, and volume |
| 11.11 03 02 04 | volume Construction of models: two-dimensional, three-dimensional | 11.11 04 02 02 | Use of instruments such as the straight- edge, compass, and protractor for construction of geometric figures |
| 11.11 03 02 05 | Indirect measurement including scale drawing, similar triangles, and nu- | 11.11 04 02 03 | Calculation of perimeter, area, and volume |
| 11.11 03 02 06 | merical trigonometry The Pythagorean rule and its appli- | 11.11 04 02 04 | Construction of models: two-dimen- sional, three-dimensional |
| 11.11 03 02 99 | cation Other Geometry Topics in Third-year General Mathematics—Include here | 11.11 04 02 05 | Indirect measurement including scale drawing, similar triangles, and nu- merical trigonometry |
| | other topics in geometry emphasized in the third year of general mathematics which may be identified in the list of topics under 11.12 00 00 00 Geometry or in the list of geometry topics under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not included in either of these lists or above. (Specify.) | 11.11 04 02 06 11.11 04 02 99 | The Pythagorean rule and its application Other Geometry Topics in Fourth-year General Mathematics—Include here other topics in geometry emphasized in the fourth year of general mathematics which may be identified in the list of topics under 11.12 00 00 00 Geometry or in the list of geometry |
| 11.11 03 03 00 | ALGEBRA AND STATISTICS—Topics in algebra and statistics studied in general mathematics frequently include: | | topics under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not included in either of these lists |
| 11.11 03 03 01 | Introduction to algebra, including sym- bols, formulas, positive and negative numbers, equations, and inequalities | 11.11 04 03 00 | or above. (Specify.) ALGEBRA AND STATISTICS—Topics in algebra and statistics studied in general |
| 11.11 03 03 02 | Ratio and proportions; trigonometry of the right triangle | 11.11 04 03 01 | mathematics frequently include: Introduction to algebra, including sym- bols, formulas, positive and negative |
| 11.11 03 03 03 | Calculation of mean, median, and mode | 11 11 04 02 00 | numbers, equations, and inequalities |
| 11.11 03 03 04 | Statistical graphs | 11.11 04 03 02 | Ratio and proportion; trigonometry of the right triangle |
| 11.11 03 03 05 | Informal numerical probability | 11.11 04 03 03 | Calculation of mean, median, and mode |
| 11.11 03 03 99 | Other Algebra and Statistics Topics in Third-year General Mathematics—Include here other topics in algebra and statistics emphasized in the third year of general mathematics which may be identified under 11.03 00 00 00 Algebra or under 11.15 00 00 00 Probability and Statistics or under 11.02 00 00 00 Mathematics (7th and 8th grades), or which are not included in these lists or above. (Specify.) | 11.11 04 03 04 11.11 04 03 05 11.11 04 03 99 | Statistical graphs Informal numerical probability Other Algebra and Statistics Topics in Fourth-year General Mathematics—In- clude here other topics in algebra and statistics emphasized in the fourth year of general mathematics which may be identified in the list under 11.03 00 00 00 Algebra or under 11.15 00 00 00 Probability and Statistics or under |



11 MATHEMATICS—Continued

11.02 00 00 00 Mathematics (7th and 8th grades), or which are not included in these lists or above. (Specify.)

11.12 00 00 00 GEOMETRY

The branch of mathematics in which the subject matter is designed to provide opportunities for pupils to (1) acquire information about geometric figures in the plane and in space, (2) gain understanding of the deductive method of thinking, (3) develop skill in applying the deductive method to mathematical situations, and (4) develop creative thinking by means of original exercises involving both the discovery of relationships and their proofs. Geometry is the subject matter of mathematics which emphasizes the use of logic in establishing proofs concerned with relationships involving points and lines in two- and three-dimensional space. The following topics are usually included for study in geometry. (Topics selected from the following list, as well as topics not listed below, may serve to describe the instructional subject matter of geometry—plane geometry, solid geometry, plane and solid geometry (integrated), and other geometry.)

| 11.12 | 00 01 | 00 | Properties of common geometric figures: (a) in the plane, and (b) in space |
|-------|-------|----|---|
| 11.12 | 00 02 | 00 | The nature of proof: undefined items, definitions, assumptions, inductive and |

deductive reasoning, and elementary

Statement and proof of conjectures in-11.12 00 03 00 volving geometric relationships

Proof of theorems related to (a) plane 11.12 00 04 00 figures—points, lines, angles, polygons, circles, and others, and (b) space—points, lines, planes, and solids

Problem solving: numerical applications 11.12 00 05 00 involving geometric figures and prop-erties; algebraic methods in the solution of geometric problems

Constructions with ruler and compasses; 11.12 00 06 00 proofs

Geometric drawing in two and three di-11.12 00 07 00 mensions

Geometric measurement: linear, angular, 11.12 00 08 00 surface, and space

Coordinate geometry in (a) the plane, 11.12 00 09 00 and (b) space Simple trigonometric relationships of the

11.12 00 10 00 right triangle Consideration of the existence of non-11.12 00 11 00

Euclidean geometries OTHER TOPICS IN GEOMETRY-Include 11.12 00 99 00 here other topics emphasized in geometry which are not listed above. (Specify.)

11.12 01 00 00 Analytic Geometry—The study of plane and solid Euclidean geometry by means of coordinate systems and the associated representations of geometric objects by algebraic ones. The following topics usually are included for study:

The Euclidean plane and the Cartesian 11.12 01 01 00 plane

Line segments, slopes, angles, length, and 11.12 01 02 00

11.12 01 03 00 Equations and properties of lines

Geometric and algebraic invariance—the 11.12 01 04 00

idea of analytic proof of geometric theorems

| 11.12 01 05 00 | Loci in the plane, including circles |
|----------------|--|
| 11.12 01 06 00 | Graphs, symmetries, reflections, and tan- gents |
| 11.12 01 07 00 | Conics (ellipse, parabola, hyperbola) |

11.12 01 08 00 Polar coordinate and loci

11.12 01 09 00 Parametric representations—higher plane and space curves

11.12 01 10 00 Vector methods; projection

11.12 01 99 00 OTHER TOPICS IN ANALYTIC GEOMETRY-Include here other topics emphasized in analytic geometry which are not listed above. (The more advanced topics may include differential geometry applying calculus to analytic geometry and analytic non-Euclidean geometries such as the geometry to the sphere or of special relativity.) (Specify.)

11.12 02 00 00 Plane Geometry—(For description of the subject matter select from the following topics.)

11.12 02 01 00 Properties of common geometric figures: (a) in the plane, and (b) in space

The nature of proof: undefined items, 11.12 02 02 00 definitions, assumptions, inductive and deductive reasoning, and elementary

Statement and proof of conjectures in-11.12 02 03 00 volving geometric relationships 11.12 02 04 00 Proof of theorems related to (a) plane

figures—points, lines, angles, polygons, circles, and others, and (b) space—points, lines, planes, and solids 11.12 02 05 00 Problem solving: numerical applications

involving geometric figures and properties; algebraic methods in the solution of geometric problems 11.12 02 06 00 Constructions with ruler and compasses;

proofs 11.12 02 07 00 Geometric drawing in two and three dimensions

Geometric measurement: linear, angular, 11.12 02 08 00 surface, and space

11.12 02 09 00 Coordinate geometry in (a) the plane, and (b) space Simple trigonometric relationships of the 11.12 02 10 00

right triangle Consideration of the existence of non-11.12 02 11 00 Euclidean geometries

11.12 02 99 00 OTHER TOPICS IN PLANE GEOMETRY-Include here other topics emphasized in plane geometry which are not listed above. (Specify.)

11.12 03 00 00 Plane and Solid Geometry-(For description of the subject matter select from the following topics.)

Properties of common geometric figures:
(a) in the plane, and (b) in space 11.12 03 01 00 The nature of proof: undefined items, 11.12 03 02 00

definitions, assumptions, inductive and deductive reasoning, and elementary logic

Statement and proof of conjectures in-11.12 03 03 00 volving geometric relationships 11.12 03 04 00

Proof of theorems related to (a) plane figures—points, lines, angles, polygons, circles, and others, and (b) space—points, lines, planes, and solids

Problem solving: numerical applications involving geometric figures and properties; algebraic methods in the solution of geometric problems

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11 12 03 05 00

| 11 MATHE | MATICS—Continued | 11.13 00 05 00 | Limits, including the derivative and the concept of an integral |
|--|---|----------------------------------|---|
| 11.12 03 06 00 | Constructions with ruler and compasses; proofs | 11.13 00 06 00 | Polynomials |
| 11.12 03 07 00 | Geometric drawing in two and three di- | 11.13 00 07 00 11.13 00 08 00 | The conic sections Periodic functions |
| | mensions | 11.13 00 00 00 | Exponentials and logarithmic functions |
| 11.12 03 08 00 | Geometric measurement: linear, angular, surface, and space | 11.13 00 99 00 | OTHER TOPICS IN INTRODUCTION TO ANALYSIS—Include here other topics |
| 11.12 03 09 00 | Coordinate geometry in (a) the plane, and (b) space | | emphasized in introduction to analysis which are not listed above. (Specify.) |
| 11.12 03 10 00 | Simple trigonometric relationships of the right triangle | 11.14 00 00 00 | LIBERAL ARTS MATHEMATICS An organization of subject matter con- |
| 11.12 03 11 00 | Consideration of the existence of non- Euclidean geometries | | cerned with the cultural relevance and meaning of mathematics designed for pupils |
| 11.12 03 99 00 | OTHER TOPICS IN PLANE AND SOLID GEOMETRY—Include here other topics emphasized in plane and solid geometry which are not listed above. (Specify.) | | for whom technical mathematics is inappro- priate. Sometimes this is a full-year course for elementary teachers; but frequently the course for elementary teachers is separate |
| 11.12 04 00 00 | Solid Geometry—(For description of the subject matter select from the following topics.) | | and more specialized. Usually, the subject matter of liberal arts mathematics is not designed to comprise a part of a sequential |
| 11.12 04 01 00 | Properties of common geometric figures: (a) in the plane, and (b) in space | | prerequisite for calculus, or science, or engineering courses. The subject matter is |
| 11.12 04 02 00 | The nature of proof: undefined items, definitions, assumptions, inductive and deductive reasoning, and elementary logic | | not standard, but is usually chosen to illustrate the role of mathematics in the development of western civilization, the philosophy and the nature of mathematics, and the relation of mathematics to logic. |
| 11.12 04 03 00 | Statement and proof of conjectures in- volving geometric relationships | | Often miniature deductive geometries of algebraic systems of novel subject matter |
| 11.12 04 04 00 | Proof of theorems related to (a) plane figures—points, lines, angles, polygons, circles, and others, and (b) space—points, lines, planes, and solids | | are included. Material from number theory has been found to be interesting and to require a minimum of technique. Some sto- chastic models are usually introduced for |
| 11.12 04 05 00 | Problem solving: numerical applications involving geometric figures and prop- erties; algebraic methods in the so- lution of geometric problems | | contrast with deterministic ones. The number system and its history was formerly considered good material for this course but recently has come to be regarded as inappropriate because pupils regard it as |
| 11.12 04 06 00 | Constructions with ruler and compasses; proofs | 11 15 00 00 00 | familiar to the point of contempt. |
| 11.12 04 07 00 | Geometric drawing in two and three di- mensions | 11.15 00 00 00 | PROBABILITY AND STATISTICS The study of the first semester of calculus with analytic geometry is frequently re- |
| 11.12 04 08 00 | Geometric measurement: linear, angular, surface, and space | | quired as prerequisite to the study of probability and statistics. The following topics |
| 11.12 04 09 00 | Coordinate geometry in (a) the plane and (b) space | | are usually included in probability and statistics: (The study of topics identified |
| 11.12 04 10 00 | Simple trigonometric relationships of the right triangle | | with an asterisk (*) is dependent on the first semester of calculus with analytic ge- |
| 11.12 04 11 00 | Consideration of the existence of non- Euclidean geometries | 11.15 00 01 00 | Sample spaces; events as subsets |
| 11.12 04 99 00 | OTHER TOPICS IN SOLID GEOMETRY—In- clude here other topics emphasized in | 11.15 00 02 00 11.15 00 03 00 | Probability axioms Finite sample spaces and equiprobable |
| | solid geometry which are not listed above (Specify.) | 11.15 00 04 00 | measures Counting and binomial coefficients |
| 11.12 99 00 00 | | 11.15 00 05 00 | Conditional probability and independent events |
| | etry not classifiable or listed above. | 11.15 00 06 00 | Random variables |
| | (Specify.) | 11.15 00 07 00 | Density and distribution functions |
| 11.13 00 00 00 | INTRODUCTION TO ANALYSIS The learning experiences and subject matter concerned with selected aspects of | 11.15 00 08 00 | Special distributions: binomial, hyper- geometric, Poisson*, uniform, normal*, and exponential* |
| | algebra, trigonometry, and analytic geom- etry which are organized into an integrated body of content. In practice, the concept of a limit and the functions of real numbers | 11.15 00 09 00 | Limit theorems*: Poisson* and normal approximations*, law of large numbers, and Central Limit Theorem* |
| | are emphasized. The following topics in mathematics are usually included in the | 11.15 00 10 00 | Descriptive statistics: means, variances, and moments |
| A. A | introduction to analysis: | 11.15 00 11 00 | Statistical inference: estimation and sam- pling |
| 11.13 00 01 00 | The algebra of real numbers | 11.15 00 12 00 | Hypothesis testing; regression |
| 11.13 00 02 00 | Coordinates of a point in a plane | 11.15 00 99 00 | OTHER TOPICS IN PROBABILITY AND |
| | | 11.10 00 77 00 | STATISTICS Include has all |
| 11.13 00 03 00 11.13 00 04 00 | Lines and planes in space Vectors and complex numbers | 11.10 00 77 00 | STATISTICS—Include here other topics emphasized in probability and statistics which are not listed above. (Specify.) |



11 MATHEMATICS—Continued

11 16 00 00 00 TRICONOMETRY

| 11.16 0 | V 00 | 00 | TRIGONOMETRY The study of trigonometric ratios and the circular functions—their relationships, graphs, and applications. Problem solving is emphasized throughout the subject matter. In practice, the following topics in trigonometry usually are included for study: |
|---------|------|----|--|
| 11.16 0 | 0 01 | 00 | Right-triangle trigonometry |
| 11.16 0 | 0 02 | 00 | Oblique-triangle trigonometry |
| 11.16 0 | 0 03 | 00 | Construction and use of trigonometric tables |
| 11.16 0 | 0 04 | 00 | Unit circle, the winding function, and periodicity |
| 11.16 0 | 0 05 | 00 | Trigonometric functions of real numbers; radians |
| 11.16 0 | 0 06 | 00 | Graphs of trigonometric functions |
| 11.16 0 | 0 07 | 00 | Inverse trigonometric functions and their graphs |
| 11.16 0 | 0 08 | 00 | Special formulas |
| 11.16 0 | 0 09 | 00 | Trigonometric identities and conditional equations |
| 11.16 0 | 0 10 | 00 | Complex numbers; vectors |
| 11.16 0 | 0 11 | 00 | Polar representations |
| 11.16 0 | 0 99 | 00 | OTHER TOPICS IN TRIGONOMETRY—Include here other topics emphasized in trigonometry which are not listed above. (Specify.) |
| | | | |

11.99 00 00 00 OTHER MATHEMATICS

Include here other organized subject matter emphasized in mathematics which is not listed or classifiable above. (Specify.)

MUSIC 12.00 00 00 00

Music is the fine art that utilizes sounds in time in a meaningful and organized manner. Subject matter and activities in music are designed to impart the skills and knowledge necessary for the understanding, appreciation, creation, performance, and enjoyment of music.

The Ad Hoc Committee for Music applied the following rationale to the selection of the items for placement in the Music area: (1) the various items selected and classified were determined by consensus of the committee to include the aspects of music most commonly taught in the United States; (2) the various aspects of subject matter selected for classification could be defined in brief form using only salient descriptive elements; and (3) the items were identifiable by titles which were considered to be most commonly used in current practice in music.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of music as an integral part of the instructional program. As an example, the Music Club provides additional opportunities to explore interests, apply various acquired skills, increase knowledge about different aspects of music, and develop appreciation for music in our culture. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they

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are described more fully in this chapter beginning on page 242. As an illustration, the Music Club is identified for reporting purposes under Cocurricular Activities as Item 20.01 21 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples, see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included in this subject-matter area are the items of information which identify the various subjects

in the music area.

12.01 00 00 00 MUSIC (GENERAL EDUCATION)

Organized subject matter and musical experiences consisting of an extensive and varied study of music designed for all pupils. The purpose of these music experiences is to provide basic education in music similar to that in other subject areas necessary to general cultural development. Through participation and study, pupils develop basic musical skills and gain insights into the art of music.

12.02 00 00 00 MUSIC LITERATURE AND/OR HISTORY

Organized subject matter and learning experiences designed to further pupils' knowledge, comorehension, and appreciation of various types and styles of music.

12.03 00 00 00 MUSIC THEORY

The study of principles of music, including rudiments, harmony, counterpoint, form and analysis, and orchestration; skills such as sight singing, ear training, and conducting; and composition. In practice, the various aspects of music theory may be organized into more specific bodies of subject matter for instruction such as the following:

12.03 01 00 00 Fundamentals

12.03 02 00 00 Harmony

12.03 99 00 00 Other Music Theory—Include here other organized subject matter and experiences emphasized in music theory which are not listed above. (Specify.)

12.04 00 00 00 VOCAL MUSIC

Learning experiences designed for the study of vocal repertoire and the development of vocal skills through solo and choral performance. Subject matter is organized to provide for instruction in a variety of situations such as:

12.04 01 00 00 Choir, Chorus, and/or Glee Club—A large ensemble of pupils organized to study, rehearse, and perform choral literature in various combinations. This musical experience provides opportunities for the pupil to gain knowledge and understanding and to develop skills through performance in groups such as the following:

12.04 01 01 00 Female
12.04 01 02 00 Male
12.04 01 03 00 Mixed

12.04 02 00 00 Vocal Instruction—Instruction designed for developing skills and knowledge in vocal

12.05 04 00 00

12.05 04 01 00

12.05 04 02 00

12.05 99 00 00

12.06 00 00 00

12.07 00 00 00 HUMANITIES

12 MUSIC—Continued performance in situations such as the following: 12.04 02 01 00 GROUP 12.04 02 02 00 INDIVIDUAL 12.04 03 00 00 Small Vocal Ensembles—A vocal chamber group such as a trio, quartet, octet, and or madrigal ensemble that offers opportunities not available in larger groups. 12.04 99 00 00 Other Vocal Music-Include here other organized subject matter and learning experiences emphasized in vocal music which are not listed above. (Specify.) 12.05 00 00 00 INSTRUMENTAL MUSIC Learning experiences designed for the study of instrumental repertoire and the development of instrumental skills through solo and group performance. Subject matter is organized to provide for instruction in a variety of situations such as: Band-An ensemble of wind and percussion 12.05 01 00 00 players organized to study, rehearse, and perform the repertoire for this medium. Among the different classifications of bands, depending upon size, repertoire, and func-tion, are the following which are organized for instruction: 12.05 01 01 00 CONCERT 12.05 01 02 00 MARCHING 12.05 01 03 00 12.05 01 99 00 OTHER BAND-Include here other organized subject matter and experiences emphasized in band which are not listed above. (Specify.) Orchestra—An ensemble of string, wind, and percussion players organized to study, rehearse, and perform the repertoire for this medium. Among the different combinations of orchestras, depending upon size, repertoire and function are the following which 12.05 02 00 00 toire, and function, are the following which are organized for instruction: 12.05 02 01 00 CHAMBER 12.05 02 02 00 FULL 12.05 02 03 00 STRING 12.05 02 99 00 OTHER ORCHESTRA-Include here other organized subject matter and experiences emphasized in orchestra which are not listed above. (Specify.) 12.05 03 00 00 Small Instrumental Ensembles—An instrumental chamber group such as a trio, quartet, or quintet that offers opportunities

not available in larger groups.

situations such as the following:

TION, AND RECREATION.)

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GROUP

INDIVIDUAL

Instrumental Instruction—Instruction

designed for developing skills and knowledge in instrumental performance in

Other Instrumental Music—Include here other organized subject matter and ex-

periences emphasized in instrumental music

(For definition see 08.03 04 02 00 Rhythms under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCA-

The study of a group of related subjects such as art, literature, music, religion, history, philosophy, and classical and modern

foreign languages—with music usually form-

which are not listed above. (Specify.)

RHYTHM AND BODY MOVEMENT

ing the core—concerned with man's individual cultural achievements and values in society as distinguished from social institutions and customs of the natural world. Sometimes aspects of the various subjectmatter areas are taught separately but relatedly; in other instances these aspects of subject-matter areas are fused or integrated. (See also 02.01 03 00 00 Humanities under ART, 05.03 69 00 00 Humanities under ENGLISH LANGUAGE ARTS, 06.03 00 00 00 Humanities under FOREIGN LANGUAGES, and 15.09 00 00 00 Humanities under SOCIAL SCIENCES/SOCIAL STUDIES.)

12.99 00 00 00 OTHER MUSIC

Include here other organized subject matter and experiences emphasized in music which are not listed or classifiable under one of the major categories above. (Specify.)

NATURAL SCIENCES 13.00 00 00 00

The natural sciences include the body of related subject matter, or the body of related courses, organized for carrying on learning experiences concerned with knowledge of the physical and biological world, and of the processes of discovering and validating this knowledge.

The Ad Hoc Committee for Natural Sciences applied the following rationale to the selection of substantive content for placement in the Natural Sciences area: (1) the items selected and classified were determined by the committee as representing the subject matter most commonly taught in natural sciences in the United States; (2) the various aspects of subject matter were identified by titles which were considered as being most commonly used; and (3) the various aspects of subject matter could be defined in brief form using only salient descriptive elements.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of natural sciences as an integral part of the instructional program. As an example, the Science Club provides additional opportunities to pursue personal interests, apply various acquired skills, increase knowledge in selected aspects of science, and develop leadership qualities through club activities. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the Science Club is identified for reporting purposes under Cocurricular Activities as Item 20.01 28 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples, see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction

| | L SCIENCES—Continued | 13.02 00 06 00 | BIOMETRICS—The science of measure- ment and statistics as used in connection |
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| tionships are figure 2 on pa | | 13.02 00 07 00 | with plants and animals. BIOPHYSICS—The application of physical principles and methods to biological organisms and their processes. |
| | | 13.02 00 08 00 | CELLULAR PHENOMENA (CYTOLOGY)— The area of biology which considers the cell as a unit of organization in plants and animals and gives consideration to the |
| 13.01 00 00 00 | ELEMENTARY SCHOOL SCIENCE) An organization of subject matter which | 13.02 00 09 00 | structure, function, pathology, and life history of cells. Conservation (Environment)—The |
| | usually includes representative topics from the biological, physical, and earth- space sciences. Learning experiences in- volve pupils in observing, exploring, dis- covering, and experimenting for purposes of achieving understanding of how sci- | | science concerned with the development, protection, use, and management of all our resources for the needs and enjoyment of all the people. Emphasis in instruction may be on natural or human resources, or both. |
| | entists work and what they know about the universe. General science is primarily studied in elementary and junior high schools, but similar courses with titles such as Comprehensive Science or Survey of | 13.02 00 10 00 | DEVELOPMENTAL BIOLOGY—Those processes and events in development which relate to or include growth, cellular differentiation and morphogenesis. |
| | Sciences are offered at the senior high school or junior college level. If desired, the subject matter of instruc- | 13.02 00 11 00 | Ecology—The study of natural mutual relationships between organisms and all factors comprising their environment. |
| | tion in general science may be described in greater detail through the use of the ap- | 13.02 00 12 00 | Entomology—The science that deals with all knowledge pertaining to insects. |
| | propriate topic titles included in items 13.02 00 01 00–13.02 00 24 00, 13.03 00 01 00–13.03 00 34 00, and 13.04 00 01 00–13.04 00 19 00. | 13.02 00 13 00 | EVOLUTION—The study of the processes and changes by which any living or- ganism acquires the morphological and physiological characteristics which dis- |
| 13.02 00 00 00 | BIOLOGICAL SCIENCES (INCLUD- ING GENERAL BIOLOGY) The environments, interrelationships, processes, classification, evolution, and structure and function of living organisms—plants, protists, and animals. | 13.02 00 14 00 | tinguish it from other living things. Genetics—The study of the production and development of varieties by the transmission of traits from parents to offspring. Aspects of this study include trait inheritance, variation, and genetic |
| 13.02 01 00 00 | Botany—The study of plants. | 12 02 00 17 00 | code. |
| 13.02 02 00 00 13.02 03 00 00 13.02 99 00 00 | BE THE SEASON TO THE SEASON TO | 13.02 00 15 00 | MOLECULAR BIOLOGY—The area of biology which considers the living organism at the molecular level and gives consideration to such topics as molecular structure and process, metabolic energy, respira- |
| 10.02 | other biological sciences which are emphasized in instruction and are not listed above. (Specify.) | 13.02 00 16 00 | tion, photosynthesis, DNA and RNA. NATURE STUDY—The consideration of objects, organisms, and their environment |
| | MAJOR ASPECTS OF THE BIOLOGI- CAL SCIENCES: | 13.02 00 17 00 | and behavior in nature. NUTRITION—The study of biochemical and physiological processes by which |
| 13.02 00 01 00 | relates to the structure of a living or- ganism or any of its parts. | | plants and animals take in, absorb, and transport food substances for promoting growth and other body functions. |
| 13.02 00 02 00 | ANTHROPOLOGY—The science of man, both physical and cultural, and the relationship of man to his cultural environment and to the societies in which he groups himself. (See also 15.01 06 00 00 Physical Anthropology under SOCIAL | 13.02 00 18 00 | ORGANIC SYSTEMS—The study of systems essential to life processes, such as the circulatory, respiratory, digestive, excretory, nervous, skeletal, and reproductive systems. |
| 13.02 00 03 00 | SCIENCES/SOCIAL STUDIES.) | 13.02 00 19 00 | ORIGINS OF LIFE—The study of the phyletic origins of present day forms of life from previously existing forms. |
| | their effects on other organisms. This may include such topics as viruses, fungi, aerobic and anaerobic bacteria, antitoxins, antibiotics, antigens, and | 13.02 00 20 00 13.02 00 21 00 | Physiology—The branch of biology that relates to the functions of living organisms or any of their parts. REPRODUCTION—The study of the proc- |
| 13.02 00 04 00 | bacteriophage. Behavior—The science which deals with the ways in which an organism responds | | ess by which plants and animals give rise to offspring by either asexual or sexual means. |
| | to stimili, its activity or change in re- lation to the environment, conditioning tropisms, irritability, and innate and learned behavior. | 13.02 00 22 00 | TAXONOMY—The study of the science which considers the nomenclature and classification of living organisms and the logic and method of such classification. |
| 13.02 00 05 00 | BIOCHEMISTRY—The branch of chemistry that deals with plants and animals and their life processes. | 13.02 00 23 00 | TECHNOLOGICAL APPLICATIONS—The study of aspects of the biological science, as oriented to the needs of individuals |



| 13 NATUR 13.02 00 99 00 | industries, or government; this includes applications in research, production, and human welfare. OTHER MAJOR ASPECTS OF THE BIOLOG- | 13.03 00 09 00 | ELECTRONICS—The study of such topics as the controlled flow of charged particles through a gas, vacuum, or crystal lattice, thermionic emission, amplification, rectification, light-sensitive devices and indicators (e.g., cathode ray tubes), |
|----------------------------------|---|----------------|--|
| 10.02 00 77 30 | ICAL SCIENCES—Include here other major aspects of the biological sciences which are emphasized in instruction and are not | 13.03 00 10 00 | television, semiconductors and transis- tors. EQUILIBRIUM—The study of factors af- |
| 13.03 00 00 00 | listed above. (Specify.) PHYSICAL SCIENCES (INCLUDING GENERAL PHYSICAL SCIENCE) The organization of subject matter that | | fecting the extent of a chemical reaction such as the dynamic nature of the equi- librium condition, equilibrium constants, free energy, and Le Chatelier's principle. |
| | usually includes for study the major topics, concepts, processes, and interrelationships of chemistry and physics. Considerations | 13.03 00 11 00 | Geology—(For definition see 13.04 02 00 00 Geology under Earth-Space Sciences.) |
| 10.00.01.00.00 | may sometimes be given to topics which are included under the earth-space sciences, such as geology and astronomy. | 13.03 00 12 00 | HEAT—The study of this form of energy in relation to changes of state, temperature, gas laws, molecular motion, and |
| 13.03 01 00 00 | CHEMISTRY—The study of the composition structure, and properties of matter, and of changes in matter, including the accompanying energy phenomena. | 13.03 00 13 00 | thermodynamic laws. INORGANIC CHEMISTRY—The study of the chemistry of noncarbon compounds. |
| 13.03 02 00 00 | Physics—The study of the branch of science that is concerned with matter and energy, including the study of phenomena associated with mechanics, heat, wave motion, sound, electricity and magnetism, | 13.03 00 14 00 | KINETIC MOLECULAR THEORY—The study of heat and pressure phenomena based on the motions and collisions of atoms and molecules, temperature, gas laws, energy equivalences, and conservation. |
| 13.03 99 00 00 | other physical sciences (not including | 13.03 00 15 00 | MATERIALS SCIENCE—The study of the structure, reactions, functions, and synthesis of alloys, ceramics, and plastics. |
| | "earthspace sciences") which are emphasized ininstruction and are not listed above. (Specify.) | 13.03 00 16 00 | Measurement—Includes the study of units, instruments, limits of errors, comprehension of scale, and statistical |
| | MAJOR ASPECTS OF THE PHYSICAL SCIENCES: | | analysis associated with the comparison of some physical characteristic with an accepted standard. |
| 13.03 00 01 00 13.03 00 02 00 | ASTRONOMY—(For definition see 13.04 01 00 00 Astronomy under Earth-Space Sciences.) ATOMIC AND MOLECULAR STRUCTURE— | 13.03 00 17 00 | MECHANICS—The study of forces and their relation to the motion of bodies: Newton's Laws, conservation principles, energy and momentum, machines, and |
| 13.03 00 02 00 | The study of such areas as the atomicity of matter, the structure of atoms and molecules, and atomic and molecular spectra. | 13.03 00 18 00 | forces in fluids. METEOROLOGY—(For definition see 13.04 03.00.00 Meteorology under Earth-Space |
| 13.03 00 03 00 | BIOCHEMISTRY—(For definition see 13.02 00 05 00 Biochemistry under Biological Sciences.) | 13.03 00 19 00 | Sciences.) Nuclear Science—The study of areas such as the structure of the nucleus, |
| 13.03 00 04 00 | BIOPHYSICS—(For definition see 13.02 00 07 00 Biophysics under Biological Sciences.) | | radioactivity, energy-mass equivalence, radiation detection and measurement, and energy effects produced when nuclear particles are disturbed by ex- |
| 13.03 00 05 00 | CHEMICAL BONDING—The study of the bonding among atoms in ions and molecules: types, lengths, and strengths of bonds; geometry of molecules, relation- | 13.03 00 20 00 | ternal forces. OCEANOGRAPHY—(For definition see 13. 04 04 00 00 Oceanography under Earth- |
| | ships of bonds to the physical and chemical properties of substances and energy considerations. | 13.03 00 21 00 | Space Sciences.) OPTICS—The study of the nature and propagation of light and other electromagnetic radiations, wave character- |
| 13.03 00 06 00 | CHEMICAL CALCULATIONS— The quanti- tative treatment of chemical reactions and solution phenomena such as manipu- lation of units in solving problems, uncertainty, significant figures, and use | 13.03 00 22 00 | lenses), color, and vision. Organic Chemistry—The study of the chemistry of carbon compounds—their |
| 13.03 00 07 00 | of the slide rule. CHEMICAL REACTIONS—The study of | 13.03 00 23 00 | properties, chemical behavior, preparation, and uses. Periodic Properties—The study of the |
| | chemical changes, including topics such as formulas, equations, oxidation-reduc- tion, equilibrium conditions, rates of reaction and energy effects. | 13.03 00 24 00 | periodicity in the properties of elements and relationship to atomic structure. Physical Chemistry—The study of the |
| 13.03 00 08 00 | ELECTRICITY AND MAGNETISM—The study of static and moving electric charges, electric and magnetic fields, elec- | 12 02 00 27 22 | application of physical principles to chemical systems; gas laws, thermo- dynamics, kinetics, solubility phenomena, and equilibrium. |
| | tric circuits (direct- and/or alternating- current phenomena) and electromagnetic effects. | 13.03 00 25 00 | QUALITATIVE ANALYSIS—The branch of chemistry concerned with the detection or identification of a substance (element, |



| 13 | NATURAL | SCIENCES—Continued | | earth processes. Content areas such as mineralogy, petrology, structural geology, |
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| | | ion, or compound) by nonquantitative tests. | | physiography, paleontology, historical geology, and economic geology may be in- |
| 13.0 | 3 00 26 00 | QUANTITATIVE ANALYSIS—The branch of chemistry concerned with the determination of the amount of a substance (element, ion, or compound) by quantitative tests. | 13.04 03 00 00 | Meteorology—The science of the atmosphere and all of the aspects of matterenergy exchange. It involves the study of weather and climate, including humidity, |
| 13.0 | 3 00 27 00 | QUANTUM MECHANICS—Includes the study of the behavior of electrons and nucleons, the duality of energy and matter (wave and particle models), relativity, | 10 04 04 00 00 | temperature, atmospheric pressure, air masses and motion, clouds, precipitation, and interrelationships on both local and global scales. |
| 13.0 | 93 00 28 00 | statistical and wave mechanics, and all aspects of quantum theory. Solid State Physics—The study of the structure and properties of solids such as crystals, alloys, semiconductors, superconductors, and plastics; this includes theoretical aspects of transistors, lasers, and ceramic devices. | 13.04 04 00 00 | Oceanography—The study of the oceans and other large bodies of water. Oceanography, which draws heavily from physics, chemistry, marine biology, and geology, is concerned with processes, compositional features, the interactions with the atmosphere and lithosphere, and biological interrelationships. |
| 13.0 | 03 00 29 00 | SOLUTION PHENOMENA—The study of the general behavior of solutions, solubility, ionization, acids-bases-salts, electrochemistry, hydrolysis, and concentration (molarity, normality). | 13.04 05 00 00 | Space Exploration—The science of space- craft, propulsion systems, launching, orbit- ing, rendezvous, spaceflight, solar-system destinations, and biological effects on man or other organisms. |
| 13.0 | 03 00 30 00 | Sound—The study of the sources and wave characteristics of sound, perception (hearing), accoustical treatments, and music. | 13.04 99 00 00 | Other Earth-Space Sciences—Include here other earth-space sciences which are emphasized in instruction and are not listed above. (Specify.) |
| 13.0 | 03 00 31 00 | STOICHIOMETRY—The study of energy and material balances in chemical sys- tems, multiple and definite proportions, | | MAJOR ASPECTS OF THE EARTH- SPACE SCIENCES: |
| 10 | 02 00 22 00 | and balancing equations. TECHNOLOGICAL APPLICATIONS—The | 13.04 00 01 00 | AERONAUTICS—The study of the structure and flight of aircraft—aviation. |
| 13. | 03 00 32 00 | study of aspects of the physical sciences as oriented to the needs of individuals, | 13.04 00 02 00 | ASTRONAUTICS—The study of the prob- lems associated with travel in space. |
| | | industries, or government; this includes applications in research, production, and human welfare. | 13.04 00 03 00 | BIOLOGICAL INTERRELATIONSHIPS—The study of the interactions between an organism and its environment as evidenced in paleontology, exobiology, marine |
| 13. | 03 00 33 00 | THERMODYNAMICS—The study of energy changes in physical and chemical systems; | 13.04 00 04 00 | biology, and ecology. CLIMATOLOGY—The study of climates, |
| | | in physics, the interrelationships of heat and mechanical energy; and in chemistry, the relationship of heat to chemical re- | 13.04 00 04 00 | their causes and effects over long time periods, and on regional or global scales. |
| 13. | 03 00 34 00 | WAVE PHENOMENA—The study of general characteristics of periodic wave mo- | 13.04 00 05 00 | Cosmology—The study of the principles, theories, and philosophy concerned with the nature of the universe as a whole, including its origin and evolution. |
| | | tion (length, frequency, velocity, ampli- tude, energy transfer, reflection, refraction, interference, diffraction) with emphasis on similarities of different types of waves (light, sound). | 13.04 00 06 00 | |
| 13. | 03 00 99 00 | OTHER MAJOR ASPECTS OF THE PHYSICAL SCIENCES—Include here other major asspects of the physical sciences which are emphasized in instruction and are not listed above. (Specify.) | 13.04 00 07 00 | volcanic eruptions, and earthquakes. FORCES AND MOTION—The study of gravitational, electromagnetic, and nuclear actions which result in various natural events such as air and ocean |
| 13. | | EARTH-SPACE SCIENCES (INCLUD- ING GENERAL EARTH-SPACE SCI- ENCE) | | currents, planetary motion, tides, seasons, and the thermonuclear reactions of the stars. |
| | | Facts, concepts, and principles of geology, astronomy, meteorology, oceanography, and space exploration which are interrelated in the study of the natural environment of | 13.04 00 08 00 | ical composition, structure, and reactions of earth materials. |
| 13. | | both earth and space. Astronomy—The study of matter and energy in the universe. This includes the | 13.04 00 09 00 | the earth and its environment in space, including phenomena such as fields and forces, mass and motion, time and space, |
| | | solar system, stars, galaxies, nebulae, and other extragalactic phenomena. The instruments used for study and the related mathematics are important aspects of astronomy. | 13.04 00 10 00 | cluding its various forms and properties; its distribution in oceans, lakes, streams, underground formations, glaciers, and |
| 13. | 04 02 00 00 | Geology—The study of the composition, structure, and history of the earth and of | | in the atmosphere; and the hydrologic cycle. |

13 NATURAL SCIENCES—Continued

13.04 00 11 00 INSTRUMENTION AND ANALYTICAL METHons—The study of the instruments and techniques used to gather observations may be supplemented through the use of instruments such as spectroscopes, telescopes, seismographs, microscopes, weather balloons, satellites, and sonar. LEVELS OF ORGANIZATION-The study 13.04 00 12 00 concerned with systems of grouping and levels of complexity and magnitude of earth phenomena such as atoms, air masses, galaxies, minerals, rocks, and mountains, and scale and complexity. 13.04 00 13 00 MATTER-ENERGY EXCHANGE—The study of the conservation of mass and energy and the exchange of these across the boundaries (interfaces) between lithosphere, hydrosphere, and atmosphere. 13.04 00 14 00 MEASUREMENT—(For definition see 13.03 00 16 00 Measurement under Physical Sciences.) PALEONTOLOGY-The study of prehistoric 13.04 00 15 00 forms of life such as plant and animal fossils. PHYSICAL GEOGRAPHY-The study, de-13.04 00 16 00 scription, and mapping of surface phenomena of the earth Soil Science—The study of the forma-13.04 00 17 00 tion, classification, mapping, and the physical, chemical, biological, and fertility properties of soils. Uniformitarianism—The study of ex-13.04 00 18 00 isting processes as a key to understanding the past, based on the theoretical uniformity of all geologic processes throughout all time. APPLICATIONS—The 13.04 00 19 00 TECHNOLOGICAL study of aspects of the earth-space sciences as oriented to the needs of individuals, industries, or government; this includes applications in research, produc-

13.04 00 99 00

OTHER MAJOR ASPECTS OF THE EARTH-SPACE SCIENCES—Include here other major aspects of the earth-space sciences which are emphasized in instruction and are not listed above. (Specify.)

OFFICE OCCUPATIONS 14.00 00 00 00

This body of subject matter, or combinations of courses and practical experience, is organized into programs of instruction to provide opportunities for pupils to prepare for and achieve career objectives in selected office occupations. In the instructional process various aspects of subject matter frequently are drawn from other subject-matter areas. Learning experiences are designed to lead to employment and/or advancement of individuals in occupations in public or private enterprises or organizations related to the facilitating function of the office. "Facilitating function," as used here refers to the expediting role played by office occupations as the connecting link between the production and distribution activities of an organization. Included is a variety of activities, such as recording and retrieval of data, supervision and coordination of office

activities, internal and external communication, and the reporting of information.

The Ad Hoc Committee for Office Occupations applied the following criteria to the selection of substantitive content for placement in the Office Occupations subject-matter area: (1) the content was determined by consensus of the committee to be unique and appropriate to office occupations in terms of the Vocational Education Act of 1963; (2) subject-matter items could be defined in brief form using only salient descriptive elements; and (3) the various aspects of organized subject matter classified under Office Occupations were identifiable by titles which the ad hoc committee considered to be most appropriate to office occupations.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of office occupations as an integral part of the instructional program. As an example, the Office Education Association provides additional opportunities to develop leadership, other qualities, and an understanding of the world of work in office occupations. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. They may be designed for participation of pupils as individuals or in groups, and are an integral part of classwork. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are discussed more fully in this chapter beginning on page 242. As an illustration the Office Education Association is identified for reporting purposes and further described under Cocurricular Activities as Item 20.01 25 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Under this heading are the items of information which identify categories of career objectives in office occupations, and around which courses and practical experiences are developed.

14.01 00 00 00 ACCOUNTING AND COMPUTING OCCUPATIONS

Planned learning experiences which include a combination of courses and practical experiences concerned with systematizing information about transactions and activities into accounts and quantitative records, and paying and receiving money. Career objectives are identified with a variety of occupational groups and specialization (as indicated in the Dictionary of Occupational Titles), such as Junior Accountants, Bookkeepers, Cashiers, Machine Operators, Tellers, and Other Accounting and Computing Occupations. (See also the category 03.01 00 00 00 Accounting, and 03.03 06 00 00 Payroll Record Keeping,

03.08 00 00 00 Business Finance, 03.09 00 00 00 Business Law, 03.12 00 00 00 Business Statistics, and 03.26 01 00 00 Business Principles under BUSINESS.)

Accountants—Programs concerned with the paraprofessional duties supporting the accountant in organizing, designing, and controlling numerical and financial data. (D.O.T. No. 160. series) 14 01 01 00 00

Bookkeepers-Programs concerned with 14.01 02 00 00 computing, classifying, and recording numerical data to keep financial records. (D.O.T. No. 210. series) (See also the category 03.03 00 00 00 Bookkeeping under BUSINESS.)

Cashiers-Programs concerned with re-14.01 03 00 00 ceiving and disbursing money in establishments other than banks, and usually involving the use of machines, including cash registers and change makers. (D.O.T. No. 211. series)

Machine Operators: Billing, Bookkeeping, and Computing-Programs con-14.01 04 00 00 cerned with operations and procedures utilizing office machines for billing, posting, calculating, adding, listing, and mechanizing data (other than business data processing equipment). (D.O.T. Nos. 214., 215., 216., and 217. series) (See also 03.03 05 00 00 Machine Bookkeeping and the category 03.10 00 00 00 Business Machines under BUSINESS.)

Tellers-Programs concerned with dis-14.01 05 00 00 bursing and receiving money in a bank and recording the transactions. (D.O.T. No. 210. series)

Other Accounting and Computing Oc-14.01 99 00 00 cupations—Programs concerned with computing and accounting office occupations emphasized in instruction which are not classified above, including emerging occupations. (D.O.T. No. 219. series) (Specify.)

BUSINESS DATA PROCESSING SYSTEMS OCCUPATIONS 14.02 00 00 00

Planned learning activities which include a combination of courses and practical experiences concerned with business data processing systems and operations. Career objectives are identified with various occupational groups and specialization (as indicated in the Dictionary of Occupational Titles), such as Computer and Console Operators, Peripheral Equipment Operators, Programmers, Systems Analysts, and other business data processing systems occupations. (See also 03.01 02 00 00 Accounting Systems, 03.01 05 00 00 Cost Accounting, 03.01 07 00 00 Data Processing Accounting, 03.12 00 00 00 Benings Systems Accounting, 03.12 00 00 00 Business Statistics, 03.17 00 00 00 Data Processing and Computer Operation, 03.17 01 00 00 Introduction to Data Processing, and 03.17 02 00 00 Data Processing Systems under BUSINESS.)

Computer and Console Operators— Programs concerned with the operation of 14.02 01 00 00 an electronic data processing computer, including reviewing program instructions, determining procedures for a specific run, readying equipment for operation, and manipulating and monitoring controls during operation. When computer trouble develops and halts the computer operation the operator is responsible for seeking the

source of the trouble. (D.O.T. No. 213. series) (See also 03.17 05 00 00 Computer Operation: Introduction under BUSINESS.)

14.02 02 00 00 Peripheral Epuipment Operators—Programs concerned with the operation of equipment which is auxiliary or peripheral to the operation of the electronic data computer. Included are the operations of cardto-tape converters, tape-to-card converters, high-speed printers, and related equipment. (D.O.T. No. 213. series) (See also 03.17 06 00 00 Processing Equipment Operation, 03.17 06 02 00 Tabulating Equipment Operation, and 03.17 06 03 00 Tabulating Machine Wiring under BUSINESS.)

14.02 02 01 00

KEY PUNCH AND CODING EQUIPMENT OP-ERATORS—Programs concerned with operating alphabetic/numeric key-punch machines for transcribing data from source materials and machines that print identification codes on wire, tape, plastic tubing, and other materials including installing specified type, code letters, and symbols in mandrels. (D.O.T. No. 213. series) (See also 03.17 06 01 00 Punch Card Data Processing under BUSINESS.)

14.02 02 99 00

OTHER PERIPHERAL EQUIPMENT OPERA-TORS-Programs concerned with peripheral equipment operations emphasized in instruction which are not classified above, including emerging occupations in this category. D.O.T. Nos. 213. and 219. series) (Specify.)

14.02 03 00 00 Programmers—Programs concerned with converting symbolic statements of business problems to detailed logical flow charts for coding into computer language, including:

ANALYZING all or part of a workflow chart of diagram representing a business problem by applying knowledge of computer capabilities subject matter, algebra, and symbolic logic to develop the sequence of program steps;

conferring with supervisors and representatives of departments concerned with programs to resolve questions of program intent, output requirements, input data acquisition, extent of automatic programming, coding and modification, and inclusions of interval checks and controls; WRITING detailed logical flow charts in symbolic form to represent work order of data to be processed by a computer system, and to describe input, output, arithmetic, and logical operations involved:

CONVERTING detailed logical flow charts to language processible by computer;

DEVISING sample input data to provide testing of program adequacy;

PREPARING block diagrams to specify equipment configuration;

OBSERVING or operating a computer to test a coded program using actual or sample input data;

CORRECTING program errors by such methods as altering program steps and

PREPARING written instructions (run book) to guide operating personnel during production runs;

ANALYZING, revising and rewriting programs to increase operating efficiency or to adapt to new requirements;

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COMPILING documentation of program development and subsequent revisions; and

SPECIALIZING, in some instances, in writing programs for one make and type of computer. (D.O.T. No. 020. series) (See also 03.17 04 00 00 Computer Programming under BUSINESS.) (Included as 16.04 01 00 00 Computer Programmer under TECHNICAL EDUCATION)

14.02 04 00 00 Systems Analysts—Programs concerned with analyzing and designing commercial systems, data methods, systems and procedures, and processing business data. Activities include analysis of business problems such as the development of integrated production, inventory control and cost, and the formulation and refinement of an analysis system for conversion to a programmable form for application to an electronic data processing system.

Activities frequently involve conferences with (1) the project director of business data processing and department heads of units involved to ascertain specific output requirements such as types of breakouts, degree of data summarization, and formats for management reports; and (2) management personnel of operating units to revise plans for obtaining and standardizing input data. (D.O.T. No. 012. series)

Among other responsibilities of the systems analyst are: the study of current or the development of new systems and procedures to devise workflow sequence; the analysis of alternative means of deriving input data to select the most feasible and economical method; and the development of process flow charts in outlines and detailed form for programming, indicating external verification points such as trial audit printouts. Responsibilities may also include directing the preparation of programs, but does not include major responsibilities for technical, scientific, or exotic mathematics applications. (D.O.T. No. 020. series) (Included as 16.04 02 00 00 Systems Analyst Technology under TECHNICAL EDUCATION)

14.02 99 00 00

Other Business Data Processing Systems Occupations—Programs concerned with business data processing systems occu-pations emphasized in instruction which are not classified above, e.g., tape librarians who are responsible for storing magnetic tapes used in processing data and making them available when they are again needed. (D.O.T. No. 223. series) (Specify.) (See also 03.17 99 00 00 Other Data Processing and Computer Operation under BUSINESS.)

14.03 00 00 00 FILING, OFFICE MACHINES, AND GENERAL OFFICE CLERICAL OCCUPATIONS

Planned learning experiences which include a combination of courses and practical experiences concerned with the recording and retrieval of data, including classifying, sorting, and filing correspondence, records, and other data. Career objectives are identified with a variety of occupational groups and specialization (as indicated in the Dictionary of Occupational Titles), such as Duplicating Machine Operators, File Clerks, General Office Clerks, and other filing, office machines, and general office clerical occupations. (See also 03.10 00

00 00 Business Machines and 03.14 00 00 00 Clerical Practice under BUSINESS.)

14.03 01 00 00 Duplicating Machine Operators-Programs concerned with reproducing handwritten or typewritten matter by use of duplicating machines and devices. Efficiency in the operation and proper maintenance of various types of duplicating equipment are emphasized. (D.O.T. No. 207. series) (See also 03.10 04 00 00 Duplicating Machines under BUSINESS.)

14.03 02 00 00

File Clerks—Programs concerned with the recording and retrieval of data, including classifying, sorting, and filing correspondence, records, and other data. (D.O.T. No. 206. series) (See also 03.21 00 00 00 Filing under BUSINESS.)

14.03 03 00 00

General Office Clerks-Programs concerned with performing a variety of clerical duties utilizing knowledge of systems and reports, including copying data and compiling records and reports; tabulating and posting data in record books; providing information and conducting interviews; operating office machines; and handling mail and correspondence. (D.O.T. No. 219. series) (See also 03.22 00 00 00 Filing and Record Control under BUSINESS.)

14.03 99 00 00

Other Filing, Office Machines, and General Office Clerical Occupations— Programs concerned with filing, office machines, and general office clerical occupa-tions emphasized in instruction which are not classified above, including emerging oc-cupations. (D.O.T. Nos. 208. and 209. series) (Specify.)

14.04 00 00 00

INFORMATION COMMUNICATION OCCUPATIONS

Learning experiences which include a combination of courses and practical experiences concerned with the distribution of information, e.g., by mail, telephone, telegraph, and in person. Career objectives are identified with a variety of occupational groups (as indicated in the Dictionary of Occupational Titles), and specialization such as Communication Systems Clerks and Operators, Correspondence Clerks, Mail and Postal Clerks, Mail-preparing and Mail-handling Machine Operators, Mes-Mail-handling Machine Operators, Messengers and Office Boys and Girls, Receptionists and Information Clerks, and other information communication occupations. (See also 03.06 00 00 00 Business Communications under BUSINESS.)

14.04 01 00 00

Communication Systems Clerks and Operators-Programs concerned with operating telephone switchboards and similar equipment for relaying incoming and interoffice calls; establishing connections between subscribers; supplying information; calculating charges; and operating telegraph and similar equipment for transmitting and receiving messages. (D.O.T. Nos. 235. and

14.04 02 00 00 Correspondence Clerks-Programs concerned with composing correspondence and related items for the purpose of obtaining or giving information. (D.O.T. No. 204. series) (See also 03.06 02 00 00 Report Writing under BUSINESS.)

14.04 03 00 00

Mail and Postal Clerks-Programs concerned with preparing incoming and outgoing mail for distribution, including time stamping, reading, sorting and delivery of incoming mail, and sealing and stamping

outgoing mail or packages; selling postage stamps and postal cards; writing money orders; computing mail costs; sorting outgoing mail; and recording daily transactions. (D.O.T. Nos. 231. and 232. series)

Mail - preparing and Mail - handling Machine Operators—Programs concerned 14.04 04 00 00 with operating machines to print names, addresses, and similar information, on items such as envelopes, accounting forms, and advertising literature; to address, fold, stuff,

seal, and stamp mail; and to open envelopes. (D.O.T. No. 234. series)

Messengers and Office Boys and Girls-14.04 05 00 00 Programs concerned with running errands; sorting and delivering letters, packages, and messages; furnishing workers with clerical supplies; and performing similar routine tasks in an office. (D.O.T. No. 230. series)

14.04 06 00 00

Receptionists and Information Clerks -Programs concerned with meeting the —Programs concerned with meeting the public through (1) answering telephone and information requests; (2) locating offices and employees; and (3) keeping records of callers, making appointments, and interviewing people to secure required data, e.g., hospital admittance data, insurance data, and similar information. (D.O.T. No. 227) and similar information. (D.O.T. No. 237.

14.04 99 00 00

Other Information Communication Occupations-Programs concerned with information communication occupations emphasized in instruction which are not classified above, including emerging occupa-tions. (D.O.T. Nos. 239. and 249. series) (Specify.)

14.05 00 00 00 MATERIALS SUPPORT OCCUPATIONS: TRANSPORTING, STORING, AND RECORDING

Planned learning activities which include a combination of courses and practical experiences concerned with (1) receiving, storing, issuing, shipping, requisitioning, and accounting for stores of material or material in use; (2) assigning locations and space to items, including verification of quality, identification, condition, and value; (3) preparing or committing stocks for shipment; (4) inventorying stock; (5) replenishing depleted items; and (6) filling orders, and issuing tools, equipment, or materials to workers. Career objectives are identified with a variety of occupational groups and specializations (as indicated in the Dictionary of Occupational Titles), such as Planning and Production Clerks, Shipping and Receiving Clerks, Stock and Inventory Clerks, Traffic, Rate, and Transportation Clerks, and other transporting, storing, and recording occupations. (See also 03.09 00 00 00 Business Law, 03.12 00 00 00 Business Statistics, and 03.26 01 00 00 Business Principles under BUSINESS.)

14.05 01 00 00 Planning and Production Clerks-Programs concerned with routing parts for fabricating operations or repairs, developing work plans prior to production, scheduling work for and delivering parts to avoid overproduction, compiling records and reports on the number and types of units produced, and scheduling shipment of parts. (D.O.T. No. 221. series)

14.05 02 00 00

Quality Control Clerks-Programs concerned with verification of quality and

quantity specifications. (D.O.T. No. 168. series)

14.05 03 00 00

Shipping and Receiving Clerks-Programs concerned with assembling, packing, addressing, stamping or receiving, unpacking, verifying, and recording incoming mer-chandise or materials. (D.O.T. No. 222. series)

14.05 04 00 00

Stock and Inventory Clerks-Programs concerned with receiving, storing, shipping, and issuing supplies, materials, and equipment in a stockroom or warehouse environment, including taking inventories, keeping records, and requisitioning stock. (D.O.T. No. 223. series)

14.05 05 00 00

Traffic, Rate, and Transportation Clerks—Programs concerned with calcu-lating fares for carriers from rate tables. Included are the study of maps to select or lay out and measure travel routes, considering type of vehicle, distance, destination, and passenger or rate service; the preparation of written reports or informing customers orally; and computing schedules and cost factors. (D.O.T. Nos. 222. and 919. series)

14.05 99 00 00

Other Materials Support Occupations: Transporting, Storing and Recording-Programs concerned with receiving, storing, issuing, shipping, requisitioning and accounting for stores of materials emphasized in instruction which are not classified above, including emerging occupations. (D.O.T. Nos. 224., 229., and 919. series) (Specify.)

14.06 00 00 00

PERSONNEL, TRAINING, AND RE-LATED OCCUPATIONS

Planned learning experiences which include'a combination of courses and practical experiences concerned with personnel administration of an organization and the facilitating functions of scheduling and conducting clerical work and management and operations of organizations. Career ob-jectives are identified with a variety of occupational groups and specialization (as indicated in the Dictionary of Occupational Titles), such as Educational and Training Assistants, Interviewers and Tests Technicians, Personnel Assistants, and other personnel, training, and related occupations. (See also 03.11 00 00 00 Business Psychology and 02.26 03 00 00 Leber Mersonnel ogy and 03.26 03 00 00 Labor Management Relations under BUSINESS.)

14.06 01 00 00

Educational Assistants and Training Specialists—Programs concerned with the training of personnel in the facilitating functions of an organization, dealing with personnel such as teacher aides in education, training specialists in industry, and others. (D.O.T. No. 166. series)

14.06 02 00 00

Interviewers and Tests Technicians—Programs cerned with interviewing and administering tests to individuals to determine their appropriateness for employ-ment and/or advancement. Also involved are the uses of appropriate measuring devices, and the administration, scoring, and analysis of individual and group progress. (D.O.T. Nos. 166. and 249. series)

14.06 03 00 00

Personnel Assistants—Programs con-cerned with formulating policies relating to the personnel administration of an organization. Emphasized are the conduct of programs of recruitment, selection, training, promotion, welfare, safety, compensation, separation of employees, and recreation involving personnel. A practical background in psychology is required for some occupa-

tions in personnel research, and in the administration of testing and counseling programs. (D.O.T. Nos. 166. and 205. series) Other Personnel, Training, and Related Occupations—Programs concerned 14.06 99 00 00 with personnel, training, and related occupations emphasized in instruction which are not classified above, including emerging occupations. (D.O.T. Nos. 166., 205., and 249. series) (Specify.)

14.07 00 00 00

STENOGRAPHIC, SECRETARIAL, AND RELATED OCCUPATIONS

Planned learning activities which include a combination of courses and practical ex-periences concerned with making, classifying, and filing records, including written communications. Career objectives are identified with a variety of occupational groups and specialization (as indicated in the Dictionary of Occupational Titles), such as Executive Administrative Secretary, Secretaries, Stenographers, and other stenographic, secretarial, and related occupations. (See also 03.06 00 00 00 Business Communications, 03.28 00 00 00 Office Practice, and the category 03.34 00 00 00 Shorthand, Stenographic, and Secretarial under BUSINESS.)

14.07 01 00 00 Executive

Executive Secretary-Programs con-cerned with secretarial coordinating, expediting, and facilitating functions of the of-fice for aiding the executive under his direction and in a confidential relationship. (See also 14.08 01 00 00 Administrative Assistants under Supervisory and Administrative Management Occupations.)

14.07 02 00 00

Secretaries-Programs related to occupations concerned with carrying out adminis-trative and general office duties in addition to taking and transcribing dictation. (D.O.T. No. 201. series)

14.07 03 00 00

Stenographers-Programs concerned with taking shorthand or special writing of notes by hand or machine and transcribing them. (D.O.T. No. 202. series)

14.07 99 00 00

Other Stenographic, Secretarial, and Related Occupations-Programs concerned with stenographic, secretarial, and related occupations emphasized in instruc-tion which are not classified above, including emerging occupations. (D.O.T. No. 209. series)

14.08 00 00 00

SUPERVISORY AND ADMINISTRA-TIVE MANAGEMENT OCCUPATIONS

Learning activities and experiences concerned with various responsibilities such as (1) studying policies, organizational structures, and administrative practices of such organizations as governmental units, industrial firms, and nonprofit groups; (2) reviewing periodic budgets submitted by operations personnel; (3) preparing reports summarizing findings and recommending changes in policy, organization, and administration to line management; (4) consolidating the budget estimates and preparing financial reports for consideration and action by upper echelons of management; and (5) supervising and coordinating activities, determining work procedures, and assigning duties. (See also the category 03.01 00 00 00 Accounting; the items 03.04 00 00 00 Budget Control, 03.06 00 00 00 Business Communications, 03.08 00 00 00 Business Finance, 03.09 00 00 Business Law; 03.12 00 00 00 Business Statistics; and the category 03.26 00 00 00 Business and Management Principles under BUSI-NESS.

14.08 01 00 00

Administrative Assistants-Programs concerned with the coordinating, expediting, and facilitating functions of the office for aiding the executive, under his direction and in a confidential relationship, in the discharge of his duties as related to personnel, the budget, records control, housekeeping, making studies, conducting analyses, reviewing reports, and other responsibilities. (D.O.T. No. 169. series) (See also 03.01 12 00 00 Secretarial Accounting under BUSINESS and 14.07 01 00 00 Executive Secretary.)

14.08 02 00 00 Budget Management Analysts—Programs concerned with examining, analyzing, and interpreting accounting records, and with the study of policies, organizational structures, and administrative practices of organizations. (D.O.T. No. 161. series)

14.08 03 00 00

Clerical Office Supervisors—Programs concerned with supervisory occupations involving the facilitating function of an organization rather than a scientific, technical, or administrative specialty. (D.O.T.

14.08 04 00 00

Nos. 160.-169. series)
Data-methods and Systems-procedures Analysts—Programs concerned with studying policies, organizational structures, and administrative practices of an organization for the purpose of recommending and installing systems procedures and methods improvements. (D.O.T. 012. series)

14.08 05 00 00

Office Managers and Chief Clerks-Programs concerned with the facilitating function of the office involving supervision of the budget and management analysis staff of an office, scheduling and conducting work, and other administrative specializations. (D.O.T. No. 169. series)

14.08 99 00 00

Other Supervisory and Administrative Management Occupations—Programs concerned with supervisory and administrative management occupations emphasized in instruction which are not classified above including emerging occupations. (D.O.T. Nos. 160.–169., 188., and 189. series) (Specify.)

14.09 00 00 00

TYPING AND RELATED OCCUPA-

Planned learning activities which include a combination of courses and practical ex-periences concerned with recording data by means of typewriters and similar devices. Career objectives are identified with a variety of occupational groups and specialization (as indicated in the Dictionary of Occupational Titles), such as Clerk Typists, Key Punch and Coding Equipment Operational Titles and related ators, Typists, and other typing and related occupations. (See also 03.06 00 00 00 Business Communications and the category 03.35 00 00 00 Typewriting under BUSI-NESS.

14.09 01 00 00

Clerk Typists-Programs concerned with the performance of general clerical work requiring the use of a typewriter in a majority of the duties, including compiling and typing reports, bills, application forms, shipping tickets, and other data from clerical records. These activities also include the filing of records and reports, posting information to records, sorting and distributing mail, answering telephones, com-

puting using adding machines, and other similar duties. (D.O.T. No. 209. series) Typists-Programs concerned with record-14.09 02 00 00 ing data by means of a typewriter or similar device. (D.O.T. No. 203. series) (See also 03.35 02 00 00 Production Typewriting, 03.35 03 00 00 Typewriting, First Course, and 03.35 04 00 00 Typewriting, Second Course, under BUSINESS.)

14.09 99 00 00 Other Typing and Related Occupations -Programs concerned with typing and related occupations emphasized in instruction which are not classified above, including emerging occupations. (Specify and list D.O.T. Nos. 209. and 219. series)

OTHER OFFICE OCCUPATIONS 14.99 00 00 00

Include here other planned learning experiences emphasized in new or emerging office occupations not listed or classifiable in one of the above major categories. (Specify and list D.O.T. Nos.)

SOCIAL SCIENCES/SOCIAL STUDIES 15.00 00 00 00

The social sciences/social studies are comprised of interrelated subject matter organized to impart knowledge, develop skills, and identify goals concerning elements and institutions of human society in the disciplines of history, economics, political science, sociology, anthropology, psychology, geography, and philosophy.

The social studies are comprised of those aspects of the above which in practice are selected for instructional purposes in schools and colleges. Social studies are usually socially oriented with regard to aims and subject matter concerning the elements

and institutions of human society.

Employing systematic, analytical, and theoretical methods, the social sciences include modes of inquiry such as historical or genetic approaches, survey research, experimentation, content analysis, and logical analysis. Illustrative methods as techniques include: field studies, case studies, statistical analysis, map and photo interpretations, simulation, participant observation, polling, questionnaires, and others.

The Ad Hoc Committee for Social Sciences/ Social Studies applied the following rationale to the selection of substantive content for placement in the Social Sciences/Social Studies area: (1) the items selected and classified were determined by the committee as representing the subject matter most commonly taught in this area in the United States; (2) the various aspects of subject matter were identified by titles which were considered as being most commonly used; and (3) the items included in the classification could be defined in brief form using only salient descriptive elements.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of the social sciences/social studies as an integral part of the instructional program. As an example, the International Relations Club provides additional opportunities to pursue personal interests, apply

various acquired skills such as research, and increase knowledge in selected aspects of the social sciences, social studies, and develop leadership qualities through club activities. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the International Relations Club is identified for reporting purposes under Cocurricular Activities as Item 20.01 16 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71-78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90-96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included in this subject-matter area are the items of information which identify various subjects in the

social sciences/social studies.

15.01 00 00 00 ANTHROPOLOGY The study of man and his works in which attention is focused on the relation between man and culture in the past and present, and on man's ongoing cultural development and the varieties of human, physical, social, and cultural forms. Anthropology is organized under such descriptive titles as Archaeology, Cultural Anthropology, Enthnology, and Physical Anthropology.

15.01 01 00 00 Archaeology-The study of human history

from the remains of past cultures. Cultural (Social) Anthropology—The comparative study of the culture of societies 15.01 02 00 00 throughout the world, over time, with emphasis on learned and shared behavior. The following topics frequently are included for

study: 15.01 02 01 00 Acculturation 15.01 02 02 00 American Indians 15.01 02 03 00 Community Development 15.01 02 04 00 Culture 15.01 02 05 00 Cultural Change 15.01 02 06 00 **Cultural Evolution** 15.01 02 07 00 Cultural Psychology

15.01 02 08 00 **Cultural Transmission** 15.01 02 09 00 Cultural Values

15.01 02 10 00 Folk Societies 15.01 02 11 00 Kinship Systems 15.01 02 12 00 **Peasant Societies**

15.01 02 13 00 Personality and Culture 15.01 02 14 00 Prehistoric People

15.01 02 15 00 Primitive Peoples, e.g., Bushmen, Eski-

mos 15.01 02 16 00 Race

15.01 02 17 00 Social, Political, Economic Organization OTHER TOPICS IN CULTURAL (SOCIAL) 15.01 02 99 00 Antropology—Include here other topics emphasized in cultural anthropology which are not listed above. (Specify.)

15.01 03 00 00 Ethnography-Subject matter and activity concerned with the procedure for study-

| | | IAL tinu | SCIENCES/SOCIAL STUDIES— | 15.02 0 15.02 0 | | | Local Community School Community |
|----------------|---------|-------------|--|--------------------|------|----|---|
| | COLL | | | 15.02 0 | | | |
| | | | ing customary behavior—collecting data on | 15.02 0 | | | Classroom Community |
| 15 01 | 04 (| 00.00 | living creatures and describing them. | 15.02 0 | | | Neighborhood |
| 15.01 | . 04 (| 00 00 | Ethnology—The study of relationships be- tween or among cultural traditions, culture areas, and cultures. | 13.02 0 | J 99 | 00 | OTHER SMALL AREAS—Include here other small areas emphasized in instruction which are not listed above. (Specify.) |
| 15 01 | 05 (| 00 00 | Ethnoscience—The study of native sys- | 15.02 9 | 9 00 | 00 | Other Area Studies—Include here other |
| 10.01 | . 00 (| ,0 00 | tems of description and classification of cultures. | | | | area studies emphasized in instruction which are not listed or classifiable above. |
| 15.01 | . 06 (| 00 00 | Physical Anthropology—The study of | 15 09 0 | 0 00 | | (Specify.) |
| | | | man's physical characteristics, his biological history, and present varieties. Topics fre- quently studied include the following: | 15.03 0 | 0 00 | 00 | CITIZENSHIP EDUCATION The study of those portions of the social sciences/social studies, and cocurricular ac- |
| 15.01 | 06 (| 01 00 | Evolution | | | | tivities, which contribute to the develop- |
| | 06 (| | Prehistoric People | | | | ment of understanding and attitudes con- |
| 15.01 | 06 (| 00 80 | Primitive Behavior | | | | ducive to effective participation in civic affairs. |
| 15.01 | . 06 (| 04 00 | Primitive Peoples, e.g., Bushmen, Eski- mos | 15.04 0 | 0 00 | 00 | CONSERVATION-ENVIRONMENTAL EDUCATION |
| 15.01 | 06 (| 05 00 | Race | | | | The study of related problems and prom- |
| 15.01 15.01 | | | OTHER TOPICS IN PHYSICAL ANTHROPOL- ocy—Include here other topics empha- sized in physical anthropology which are not listed above. (Specify.) Other Anthropology—Include here other | | | | ises of the new technologies concerned with natural resources and their utilization. Em- phasis in instruction is on developing under- standing and appreciation of one's natural heritage and responsibilities. (See also Ma- |
| 10.01 | ,,, | .0 00 | subject matter emphasized in anthropology which is not classifiable above. (Specify.) | | | | jor Aspects of the Biological Sciences, 13.02 00 09 00 Conservation (Environment), under |
| 15.02 | 00 0 | 00 00 | AREA STUDIES (MULTIDISCIPLINARY) | 15.05 0 | 00 | 00 | NATURAL SCIENCES.) CONSUMER EDUCATION |
| | | | Studies of selected areas which vary in | | | | The study concerned with the develop- ment of knowledge, understanding, appreci- |
| | | | scale from the small area, such as the | | | | ations, and skills involved in the economic |
| | | | neighborhood, to a large continental area such as South America. They may be de- | | | | welfare of the consumer and consumer |
| | | | fined in terms of political boundaries, geo- | | | | groups in everyday life, e.g., competency |
| | | | graphic areas, or cultural characteristics. | | | | in managing money, purchasing and using goods and services, banking, investments, |
| | | | The term "area studies" usually connotes | | | | credit, consumer legislation, evaluation of |
| | | | the interdisciplinary approach, from the more simple geography—history interpre- | | | | consumer research and product-testing, and |
| | | | tation—to the complex cultural interpre- | | | | the role of the consumer in the economy. (Included as 03.15 00 00 00 Consumer |
| | | | tation involving anthropology, sociology, | | | | Education under BUSINESS and 09.01 04 |
| | | | economics, political science, and other re- lated areas. Area studies frequently are grouped as follows: | 80-02-0 | | | 00 00 Consumer Education under HOME ECONOMICS) |
| 15.02 | 01 0 | 0 00 | Areas Beyond the United States: | 15.06 00 | 00 | 00 | ECONOMICS |
| 15.02 | 01 0 | 1 00 | Africa | | | | The study of man's use of limited resources to satisfy his wants—resources |
| 15.02 | 01 0 | 2 00 | Asia | | | | transformed by production into goods and |
| 15.02 | 01 0 | 3 00 | Australasia | | | | services which, upon distribution, are trans- |
| | 01 0 | | Canada | | | | formed by consumption to yield the satis- |
| | 01 0 | | Europe | | | | faction of wants. The study of economics includes the analysis of the implications of |
| | 01 0 | | Latin America | | | | alternative choices in the allocation of re- |
| | 01 0 | | Middle East | | | | sources. (Included as 03.18 00 00 00 Eco- |
| | 01 0 | | Soviet | | | | nomics under BUSINESS) Subject matter in economics is organized under various |
| 15.02 | 01 9 | 9 00 | OTHER AREAS BEYOND THE UNITED STATES—Include here other areas beyond the United States emphasized in instruc- | 15.06 01 | 00 | 00 | descriptive titles such as the following: Business and Industry Economics—The |
| 23.0 | 3550.39 | 500 | tion which are not listed above. (Specify.) | | | | study of how the business firm is organized |
| | | | Regions of the United States: | | | | and combines resources to produce goods and services, taking account of costs, prices, |
| 15.02 | | | Midwest | | | | profits, and the nature and extent of |
| 15.02 | | | North Central | 1 . 0. 00 | | | competition in markets. |
| 15.02 | | | Northeast | 15.06 02 | 00 | 00 | Comparative Economics—The study of (a) comparative economic systems: differ- |
| | 02 0 | | Northwest | | | | ences among economies in their arrange- |
| | 02 0 | | Southeast Southwest | | | | ments for the production, distribution, and |
| | 02 99 | | OTHER REGIONS OF THE UNITED STATES | | | | consumption of goods and services; (b) com- |
| .5.02 | 02 9 | 9 00 | —Include here other regions of the United States emphasized in instruction which are not listed above. (Specify.) | | | | parative economic thought: differences among economic explanation of the produc- tion, distribution, and consumption of goods and services; and (c) economic develop- |
| | | | | | | | 나는 사람들이 살아보는 그 나는 그 아내는 아내는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다면 하지만 하지만 하지만 하지 않는데 없는데 그렇게 모든데 없다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었 |
| 5.02 | 03 00 | 00 | Small Areas: | | | | ment: the evolution of economies toward in- dustrialism, the growth of the world econ- |



| 15 SOCIAL Continue | SCIENCES/SOCIAL STUDIES— | 15.07 02 00 00 | Human (Cultural) Geography—The geographical study of man and his economic, social, and political activities as they are |
|-----------------------|--|----------------------------------|--|
| 15.06 03 00 00 | Consumer Economics—The study of the problems in consuming the production of the economy as seen from the behavior of the individual consumer and the aggregate of consumers which is the consumer sector of the economy. (Included as 03.18 01 00 00 | 15.07 02 01 00 | distributed over the surface of the earth. (Comprises a portion of the definition of 03.19 00 00 00 Economic Geography under BUSINESS) The following considerations are frequently included for study: Cartographic Interpretation |
| | Consumer Economics under BUSINESS) | 15.07 02 02 00 | Circulation Patterns |
| | (See also 04.00 00 89 00 Economics of Consumption under DISTRIBUTIVE EDU- | 15.07 02 03 00 | Economic Patterns |
| | CATION.) | 15.07 02 04 00 | Political Patterns |
| 15.06 04 00 00 | History of Economic Thought-The | 15.07 02 05 00 | Population |
| | study of changes in the explanations of how | 15.07 02 06 00 | Settlement Patterns |
| | economic systems have answered the ques- tions: What shall be produced? How shall it be produced? For whom shall it be pro- duced? | 15.07 02 99 00 | OTHER HUMAN GEOGRAPHY—Include here other human geography emphasized in instruction which is not listed above. (Specify.) |
| 15.06 05 00 00 | Money and Banking—The study of the influence upon economic activity of the quantity of money and credit and its cost (interest rates). (Included as 03.18 03 00 00 Money and Banking under BUSINESS) | 15.07 03 00 00 | Physical Geography—The study of that branch of geography which deals with the distribution and interrelationships of the physical and biotic features of the earth's surface: landforms, soils, climates, water |
| | National Income (and components thereof)—The study of the explanation of level, growth, stability, and composition of a nation's or region's income, including the influence of taxing, borrowing, and spending at Federal, State, and local levels. | | (both surface and subsurface), minerals, and wild plant and animal life. Concerned exclusively with man's physical and biotic habitat, physical geography can properly be regarded as a natural science and is frequently included in science education draw- |
| 15.06 07 00 00 | Principles of Economics—Commonly in- cluded for study in a survey course in economics entitled "Principles of Eco- nomics" are the kinds of applications con- sidered in the various types of economics | 15 07 02 01 00 | ing on earth science for subject matter. In practice, the following major aspects of physical geography frequently are included for study: |
| | described elsewhere in these pages. (In- | 15.07 03 01 00 | Atmosphere: weather, climate |
| | cluded as 03.18 04 00 00 Principles of | 15.07 03 02 00 | Biosphere: wild plants, wild animals |
| | Economics under BUSINESS) | 15.07 03 03 00 15.07 03 04 00 | Exosphere, e.g., remote sensing |
| 15.06 08 00 00 | Resource Economics—The study of the employment of (a) the labor resource, its | 15.07 05 04 00 | Hydrosphere: oceans, other surface water bodies, subsurface water, land ice |
| | wages, employment conditions, and organi- | 15.07 03 05 00 | Lithosphere: land forms, minerals, soils |
| | zation into unions; (b) capital resources, that is, the manmade instruments of pro- duction; and (c) natural resources such as land, mineral wealth and water. (Included | 15.07 03 99 00 | OTHER ASPECTS OF PHYSICAL GEOGRAPHY —Include here other aspects of physical geography emphasized in instruction which are not listed above. (Specify.) |
| 15 06 00 00 00 | as 03.18 02 00 00 Labor Economics under BUSINESS) Other Economics—Include here other or- | 15.07 04 00 00 | Regional Geography—The study of regions, a region being an area of any size that |
| | ganized subject matter emphasized in eco- nomics which is not listed above, e.g., mathematical economics, economic theory, institutional economics, economic statistics, and operations research. (Specify.) | | is homogeneous with respect to specific criteria. (Comprises a portion of the definition of 03.19 00 00 00 Economic Geography under BUSINESS) In practice, regional geography comprises a wide variety of studies—physical, biotic, and human—such as the following: |
| 15.07 00 00 00 | GEOGRAPHY | 15.07 04 01 00 | Agricultural Regions, such as dairy belt |
| | The study of spatial relations and spatial processes on the earth's surface, studied on | | or corn belt |
| | a variety of scales ranging from local to worldwide. Included are both empirical and | 15.07 04 02 00 | Climatic Regions, such as rainy tropics or arid lands, or hot and cold regions |
| | of (a) the spatial relations and processes | 15.07 04 03 00 | Continental Regions, such as North America |
| | of physical, biotic, and human phenomena considered separately or in varying combi- | 15.07 04 04 00 | Culture Regions, such as Latin America |
| | nations, and (b) spatial relations and proc- | 15.07 04 05 00 | Landform Regions, such as mountain areas |
| | esses in the abstract. An understanding of these spatial relations and processes and their significance to human activities en- | 15.07 04 06 00 | Manufacturing Regions, such as the Anglo-American Manufacturing Belt |
| | courages analysis of why things are when they are. Subject matter in geography is | 15.07 04 07 00 | Political Regions, such as an individual State, a group of states, or a nation |
| | organized under various descriptive titles, including the following: | 15.07 04 08 00 | Population (Human) Regions |
| 15.07 01 00 00 | Historical Geography—The study of the geographies of the past. It is concerned | 15.07 04 09 00 | Vegetation Regions, such as steppe or savanna areas |
| | with the reconstruction of the geography of a past period. Thus, an historical ge- ography of any region is theoretically pos- sible for every period of its history. | 15.07 04 99 00 | OTHER REGIONAL GEOGRAPHY—Include here other regional geography empha- sized in instruction which is not listed above. (Specify.) |



15 SOCIAL SCIENCES/SOCIAL STUDIES— Continued

15.07 99 00 00 Other Geography—Include here other organized subject matter emphasized in geography which is not listed or classifiable above. (Specify.)

15.08 00 00 00 HISTORY

The study of man's past considered in terms of what has been interpreted about change or process. The conventional categories of inquiry are: political history, economic history, social history, and intellectual history. Consideration is also given to how historians proceed by gathering, criticizing, synthesizing, and interpreting evidence concerning accessible and relevant periods of the past. The subject matter of history is organized under various descriptive titles such as follow:

15.08 01 00 00 American History (including Canada, Latin America, and the United States)

—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with the western hemisphere. American history considers, e.g., pre-Columbian cultures, European discovery and exploration, colonial society, growth of independent nations, and inter-American relations.

15.08 02 00 00 Local History—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with localities. Local history considers, e.g., settlement, growth of the economy, ethnic influences, and cultural development.

15.08 03 00 00 Modern History—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with the period of modernity (since approximately 1500 A.D.) Modern history considers, e.g., the expansion of Europe, the impact of romantic thought, the industrial revolution, and anticolonialism in Africa and Asia.

15.08 04 00 00 State History—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with individual American States. State history considers, e.g., exploration, constitutional evolution, development of transportation and communication, and military contribution.

15.08 05 00 00 United States History—The study of the history of selected events, individuals, groups (e.g., racial, religious, ethnic), institutions, artifacts, ideas, and other phenomena associated with the United States. United States history considers, e.g., colonial society, the westward movement, the Civil War, and America's emergence as a great power.

15.08 06 00 00 Western Civilization—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with the western world. Western civilization considers, e.g., rise and fall of the Roman Empire, the Renaissance and Reformation, the rise of the nation State, and the secularization of society.

15.08 07 00 00 Nonwestern Civilization—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and

other phenomena associated with the nonwestern world (Asia and Africa). Nonwestern civilization considers, e.g., the development of Chinese thought, imperial enterprise in Africa, social revolution in Southeast Asia, and diffusion of western ideas.

15.08 08 00 00 World Civilization—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with the entire world, usually taught in junior colleges with an emphasis on social and intellectual changes rather than political changes. World civilization considers, e.g., the emergence of

zation considers, e.g., the emergence of Greek philosophy, the proliferation of Christianity, and the integration of the international community.

15.08 09 00 00 World History

World History—The study of the history of selected events, individuals, groups, institutions, artifacts, ideas, and other phenomena associated with the entire world. World history considers, e.g., emergence of prehistoric man and society, the Roman conquests, the westernization of Asia, and the impact of technology since 1500 A.D.

15.08 99 00 00 Other History—Include here other subject matter emphasized in history which is not listed above, e.g., ancient history, history of Latin America, history of democratic thought, and history of religion. (Specify.)

15.09 00 00 00 HUMANITIES

The study of a group of related subjects such as literature, art, music, religion, history, philosophy, and classical and modern languages—with aspects of social sciences/social studies usually forming the core—concerned with man's individual cultural achievements and values in society as distinguished from social institutions and customs of the natural world. Sometimes aspects of the various subject-matter areas are taught separately but relatedly; in other instances these aspects of subject-matter areas are fused or integrated. (See also 02.01 03 00 00 Humanities under ART, 05.03 69 00 00 Humanities under ENG-LISH LANGUAGE ARTS, 06.03 00 00 00 Humanities under FOREIGN LANGUAGES, and 12.06 00 00 00 Humanities under MUSIC.)

15.10 00 00 00 PHILOSOPHY

A systematically organized body of knowledge concerned with the investigation and study of human nature and conduct as conceived and interpreted in terms of facts and principles of reality. Usually, the substance of philosophy includes aspects of esthetics, ethics, logic, metaphysics, and the theory of knowledge. The subject matter of philosophy is organized under various descriptive titles such as those which follow:

15.10 01 00 00 Ethics—The study and critical examination of morals, the meaning of "good," the nature of moral judgment, and the justification of conduct in terms of what is considered right and proper standards of behavior. Considerations are given to the theoretical problems involved in ethics and the development of understanding which enable pupils to establish personal views concerning moral phenomena.

15.10 02 00 00 History of

History of Philosophy—The study of selected philosophers and areas of scholarship in philosophy from the pre-Socratic era to the present.

15 SOCIAL SCIENCES/SOCIAL STUDIES— Continued 15.10 03 00 00 Introduction to Philosophy—The study

Introduction to Philosophy—The study of the major philosophical problems, issues, and conflicts as treated by classical and modern philosophers. The theory of knowledge, facts and principles of reality and of human nature and behavior, and the implications of morality, science, and religion in everyday life are among the assumptions and issues frequently examined.

15.10 04 00 00 Logic—The study of the scientific principles of formal reasoning and criteria governing validity in thinking. Attention may be given to a wide range of considerations, such as application of logic and rhetoric to everyday situations, symbolic logic, semantics, processes of argument, inconsistency, methods of investigation, and propositions and inferential interrelationships. (See also 15.04 01 01 00 Logic under ENGLISH LANGUAGE ARTS.)

15.10 05 00 00 Metaphysics—The study of the science of reality—of being. The nature of mind and of space and of time, the principles and causes of things, and the existence of universals are aspects of metaphysics which are frequently examined, as well as philosophical agreements and disagreements with these issues.

15.10 06 00 00 Philosophy of Religion—The critical investigation and study of religious experiences, beliefs and statements, arguments about the existence of a deity or deities, and the evaluation of the historical derivation of a religion or religions.

15.10 99 00 00 Other Philosophy—Include here other subject matter emphasized in philosophy which is not listed above. (Specify.)

15.11 00 00 00 POLITICAL SCIENCE

The study of government (s) and political behavior. The subject matter provides publis with insight into a variety of factors important to the study of governments and culture, and systems processes, policies, theories, goals, and the relationships between governments. The subject matter of government is organized under various descriptive titles such as those which follow:

15.11 01 00 00 American Government—The study of the processes and structures and processes by which men govern themselves at the local, State, and national levels.

15.11 01 01 00 Constitution, The—The study of the legal framework under which the American political system operates.

15.11 01 99 00 OTHER AMERICAN GOVERNMENT—Include here other subject matter emphasized in American government. (Specify.)

15.11 02 00 00 Comparative Systems—The study and comparative analysis of political institutions, processes, and behavior in various countries—developing and developed.

15.11 03 00 00 Contemporary World Affairs—The analysis of economic, sociological, political, legal, cultural, and other factors which influence the relations between nations.

15.11 04 00 00 International Relations—The study of agencies, operations, and principles involved in communication and interaction among nations, with emphasis typically given to relations among governments.

15.11 05 00 00 Political Parties and Public Opinion— The development, organization, and operation of political parties and pressure groups and the formulation and role of public opinion.

15.11 06 00 00 Political Socialization—The study of the ways in which society transmits political orientations, including knowledge, norms, and practices from one generation to the next.

15.11 07 00 00 Political Theory—The study of the major schools of political philosophy, including the development of modern methodological techniques relevant to political science.

15.11 99 00 00 Other Political Science—Include here other subject matter emphasized in political science which is not listed above. (Specify.)

15.12 00 00 00 PSYCHOLOGY

The study and systematic investigation of organisms, especially human beings, and their collective characteristics—their intelligence, feelings, and attitudes, and their behavior in relation to physical and social environment. The subject matter of psychology is organized under various descriptive titles such as those which follow:

15.12 01 00 00 Developmental Psychology—The investigation and study of those aspects of psychology concerned with the progressive development and behavior in childhood and adolescence. Frequently emphasized for study are: behavior and mental growth, the process of maturation, the concept of self, norms in behavior, social norms (relationship with people), heredity and environment and their interaction, parentchild relationships, and the effects of cultural and social forces upon attitudes and values.

15.12 02 00 00 Educational Psychology—The investigation and study of a variety of aspects of psychology and their applications to classroom situations. Among considerations frequently emphasized are the nature and theory of learning, child and adolescent development, emotion and adjustment, motivation, and individual and group differences.

15.12 03 00 00 General Psychology—The study of the fundamental principles of human behavior. Basic concepts, the scope of psychology, psychological methods, human behavior, animal behavior, motivation, thought processes, theory of learning, characteristics of emotions, and perception are frequently emphasized. Subject matter is usually designed for study in breadth rather than for the study of selected aspects of psychology in depth.

15.12 04 00 00 Psychology of Adjustment—The study of the individual in terms of total adjustment with major emphasis applied to social environment. Among factors frequently emphasized for study are adjustment techniques, personality as a construct, theories of personality, the nature of conflict and adjustment in personality, and physiological and social aspects of personality development.

15.12 05 00 00 Social Psychology—The study of the behavior of individuals and of groups, of behavioral interactions, and of the influence of the group (s) on attitudes, emotions, and personality development. Among the aspects of social psychology frequently emphasized for study are the adjustment of individuals to group situations, including family, school, and occupation; social foundations of attitudes and behavior—develop-

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15 SOCIAL SCIENCES/SOCIAL STUDIES— Continued

ment and change; social judgments and perception; and psychological factors involved in race prejudice, war, and nationalism.

15.12 99 00 00 Other Psychology—Include here other subject matter emphasized in psychology which is not listed above. (Specify.)

15.13 00 00 00 SOCIOLOGY

The study of human society, its structure and processes. It includes a wide range of societal relationships— from the primary groups such as the family, the tribe, and the clan, to the complex groupings that characterize the megalopolis of urban society. Socialization, collective behavior, deviance from the group, culture, aspects of social status, and patterns of social change are among areas emphasized in subject matter. The subject matter of sociology is organized under various descriptive titles such as those which follow:

15.13 01 00 00 Community, The—The study of the social organization of a cluster of family groups, in a given locality, that are linked by a consciousness of similarities in attitudes, values, and problems. Among major aspects of "community" which are investigated and studied are the following:

15.13 01 01 00 RURAL SOCIETY—A study of that portion of organized society living in rural areas, with emphasis on rural trends and problems.

15.13 01 02 00 URBAN SOCIETY—Applications of sociological principles to the study of customs and institutions in an urban setting, with emphasis on metropolitan trends and problems. Aspects of urban planning may be appropriately included for investigation and study.

15.13 01 99 00 OTHER COMMUNITY—Include here other organized subject matter concerning "community" and emphasized in instruction which is not listed above. (Specify.)

15.13 02 00 00 Public Opinion and Political Sociology
—The investigation and study of the development of sociological attitudes and behavior, including voting behavior, pressure groups, mass communication, and detection and interpretation of propaganda.

15.13 03 00 00 Socialization—The study of the problems and processes of man becoming a participating member of society.

15.13 04 00 00 Social Organization—The study of the

15.13 04 00 00 Social Organization—The study of the structure of groups, institutions, and agencies that comprise the structure of society.

Among the groups, institutions, and agencies studied the following usually are included:

15.13 04 01 00 EDUCATION—The study of schools and other educational agencies—their structure, role in the socialization process, and function in a dynamic society.

15.13 04 02 00 Family—The study of the smallest group central to an organized society—its social, economic, and biological characteristics, functions, and problems.

15.13 04 03 00

Religion—The study about religious organizations and churches and their functions in a dynamic contemporary society.

Other Social Organization—Include here other subject matter emphasized in social organization which is not listed

above. (Specify.)

15.13 05 00 00 Social Problems—The study of problems of human groups. The subject matter may appropriately include the study of: (a) family disorganization; (b) population imbalances; (c) delinquency; (d) crime—causes, effects, and remedies related to the pathology of society that involves the maladjustments of the individual which bring him into conflict with society; (e) poverty; and (f) ethnic group conflicts.

15.13 06 00 00 Social Stratification—The study of the hierarchical groups in society, such as classes and castes.

15.13 07 00 00 Social Theory—The investigation and study of the concepts and propositions developed in the systematic analysis of the structural components of human society and their interaction.

15.13 99 00 00 Other Sociology—Include here other subject matter emphasized in sociology which is not listed or classifiable above. (Specify.)

15.99 00 00 00 OTHER SOCIAL SCIENCES/SOCIAL STUDIES
Include here organized subject matter emphasized in social sciences/social studies

Include here organized subject matter emphasized in social sciences/social studies which is not listed or classifiable above. (Specify.)

TECHNICAL EDUCATION 16.00 00 00 00

Technical education is concerned with that body of knowledge organized in a planned sequence of classroom and laboratory experiences, usually at the postsecondary level, to prepare pupils for a cluster of job opportunities in a specialized field of technology. The program of instruction normally includes the study of the underlying sciences and supporting mathematics inherent in a technology, as well as methods, skills, materials, and processes commonly used and services performed in the technology. A planned sequence of study and extensive knowledge in a field of specialization is required in technical education, including competency in the basic communication skills and related general education. Technical education prepares for the occupational area between the skilled craftsman and the professional person such as the physician, the engineer, and the scientist.

The technical education curriculum is so structured that it prepares the graduate to enter a job and be productive with a minimum of additional training after employment. It is designed to provide a background of knowledge and skills which will enable an individual to advance with the developments in the technology, and enables him, with a reasonable amount of experience and additional education, to advance into positions of increased responsibility.

The technician frequently is employed in direct support of the professional employee. For example, the engineering technician will be capable of performing such duties as assisting in the following engineering functions: designing, developing, testing, modifying of products and processes, production planning, writing reports, and preparing estimates; analyzing and diagnosing technical problems that

15 SOCIAL SCIENCES/SOCIAL STUDIES— Continued

involve independent decisions; and solving a wide range of technical problems by applying his background in the technical specialties—science, mathematics, and communicative and citizenship skills.

The Ad Hoc Committee for Technical Education applied the following rationale to the selection of substantitive content for placement in the Technical Education area: (1) the items selected and classified were determined as representing the subject matter most commonly taught in technical education in the United States; (2) the various aspects of subject matter were identified by titles which were considered as being most commonly used; and (3) the various aspects of subject matter selected for placement under Technical Education could be defined in brief form using only salient descriptive elements.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

16.01 00 00 00 ENGINEERING-RELATED TECHNOLOGY

That part of the engineering field which requires the application of scientific and engineering knowledge and methods combined with technical skills necessary in the support of engineering activities. Persons prepared in this technology are a part of the engineering manpower team which includes the skilled craftsman, the technician, and the engineer, and work as technicians in close support of the engineer.

16.01 01 00 00 Aeronautical Technology—A planned

Aeronautical Technology—A planned program of classroom and laboratory experiences, including mathematics, the physical sciences, and a combination of aerodynamics, structures, materials, and electronics as applied to the design, testing, and development of aircraft. This program is designed to produce the ability to understand the propulsion, control, and guidance system of the airplane, and to collect pertinent engineering data in a research-and-development activity. This program prepares the graduate to work in direct support of the engineer in the aerospace industry.

16.01 02 00 00 Agricultural Technology—Specialized classroom and laboratory learning experiences in physical sciences, mathematics, and specialty courses dealing with farm machinery, farm structures, and rural electrification, designed to prepare the graduate to work in direct support of the agricultural

engineer. 16.01 02 01 00 Agricu

AGRICULTURAL ELECTRIFICATION TECHNOLOGY—Specialized learning experiences in electrical systems as applied to planning, estimating, and designing to meet the needs of the customer. (See also 01.03 07 00 00 Agricultural Electrification under AGRICULTURE.)

16.01 02 02 00

AGRICULTURAL MACHINERY AND EQUIP-MENT TECHNOLOGY—Specialized learning experiences in properties of soils, characteristics of crop growth, and the development of knowledge and understanding concerning mechanisms, control systems, and materials-handling as applied to the design, development, testing, and manufacture of agricultural machinery and equipment. (See also 01.03 01 00 00 Agricultural Power and Machinery under AGRICULTURE.)

16.01 02 03 00

AGRICULTURAL STRUCTURES AND CONVENIENCES—Specialized learning experiences concerned with the strength of building materials and elementary structures as applied to planning, estimating, and designing to meet the needs of the customer. (See also 01.03 02 00 00 Agricultural Structures and Conveniences under AGRICULTURE.)

16.01 02 99 00

OTHER AGRICULTURAL TECHNOLOGY—Include here other organized subject matter and experiences emphasized in agricultural technology which are not listed above. (Specify.)

16.01 03 00 00

Architectural Technology (Building Construction)—A program of instruction designed to provide the pupil with knowledge and understanding of scientific principles, mathematical concepts, and communicative and technical skills combined with laboratory experiences including creative design, testing, and model building which will enable him to be supportive to the architect and the architectural engineer. The subject matter is concerned with design, estimating, inspection, supervision, and contracts and specifications—primarily in the field of building construction—with emphasis on the art of form.

16.01 04 00 00

Automotive Technology—A sequence of classroom and laboratory experiences, in cluding the study of scientific and mathe matical principles which lead to understanding of the design, development, and testing of internal combustion engines and related component parts of the motor vehicle, including transmissions, electrical systems, and braking systems. This program is planned to prepare the graduate to perform duties concerned with designing, testing, and development in direct support of the automotive engineer.

16.01 05 00 00

Chemical Technology—A program of instruction designed to provide the pupil with knowledge of scientific principles, mathematical concepts, and communicative and technical skills combined with appropriate laboratory experiences which will enable him to be supportive to professional personnel in the chemical field. The subject matter emphasizes qualitative, quantitative, and analytical analyses in general and organic chemistry. In the unit-operation laboratory he studies material handling, crushing, grinding, and sizing. By pilotplant operation he studies the machinery and methods used in extraction, distillation, evaporation, drying, absorption, and heat transfer in chemical technology. He designs, installs, and operates pilot plants for chemical manufacturing processes.

16.01 06 00 00

Civil Technology—A planned program of classroom and laboratory experiences including the study of physical sciences, mathematics, surveying, strength of ma-



TECHNICAL EDUCATION—Continued

terials, and other specialty courses leading to preparation for designing, testing, and supervising the construction of highways, railroads, airports, bridges, harbors, irri-gation works, sanitary plants, and other structures. The graduate works in direct support of the civil engineer.

16.01 06 01 00

Technology—Specialized ROADWAY learning experiences designed to prepare personnel for duties such as surveying, designing routes, laying out roadways, test-ing materials, acquiring land and pre-paring plans and specifications for the construction of highways, railroads, and airports.

16.01 06 02 00

SANITATION TECHNOLOGY—Specialized learning experiences, including the study of biological sciences, planned for preparing personnel who will be involved in the design, construction, and operation of water systems, sewage disposal systems, and pollution control systems.

16.01 06 03 00

STRUCTURAL TECHNOLOGY—Specialized learning experiences concerned with the preparation of personnel for duties such as structural detailing and design testing, building construction supervision, esti-mating, and specification writing.

16.01 06 99 00

OTHER CIVIL TECHNOLOGY—Include here other organized subject matter and ex-periences emphasized in civil technology which are not listed above. (Specify.)

16.01 07 00 00

Electrical Technology—An organization of subject matter and laboratory experiences designed to provide preparation in specialty courses, physical sciences, mathematics, and general education as applied to the design, development, and testing of electrical circuits, devices and systems for generating electricity, and the distribution and utilization of electrical power. These electrical systems incorporate, and require knowledge about, the application of electronic and instrumentation devices.

The program is designed to develop in the individual the capacity to perform in such areas as: model and prototype development and testing; systems analysis and integration including design, selection, installation, calibration and testing; development of corrective and preventive maintenance techniques; application of engineering data; and the preparation of reports and test results in support of the electrical engineer.

16.01 08 00 00

Electronic Technology-Subject matter and laboratory experiences organized to provide preparation in the speciality courses, physical science, mathematics, and general education concerned with the design, development, modification, and testing of electronic circuits, devices and systems. Subject matter incorporates solid state and microminiaturization devices and representative systems such as microwave systems, computers, and controls.

The program is designed to develop in the individual the capacity to perform in such areas as: practical circuit feasibility; prototype development and testing; development of maintenance techniques; sysanalysis including design, selection, installation, calibration, and testing; and the application of engineering data and preparation of reports and test results in support of the professional personnel in the electronics field.

16.01 09 00 00

Electromechanical Technology-A selection and integration of specialized classroom and laboratory learning experiences in both the mechanical and electrical fields.

Instruction is planned to provide prepa-ration for responsibilities concerned with the design, development, and testing of electromechanical devices and systems such as automatic control systems and servomechanisms, including vending machines, elevator controls, missile controls, tape-control ma-

controls, inside controls, tape-control machines, and auxiliary computer equipment.

The program of instruction is designed to develop understanding, knowledge, and skills which will provide the capacity to perform effectively in such areas as: feasibility testing of engineering concepts; systems analysis including design selection tems analysis including design, selection, and testing; application of engineering data; and the preparation of written reports and test results in support of mechanical and electrical engineers.

16.01 10 00 00

Environmental-control Technology—Classroom and laboratory experiences designed to develop in the pupil knowledge and understanding concerned with the scientific principles and basic mathematics dealing with the control of temperature and quality of air, and the design, testing, installation, and development of heating and cooling systems. (See also 17.01 00 00 00 Air Conditioning under TRADE AND INDUSTRIAL OCCUPATIONS.)

16.01 10 01 00

COOLING—Specialized learning experiences concerned with cooling systems such as unit air conditioners and control sys-tems. Instruction emphasizes design, development, and installation and their applications to cooling systems.

16.01 10 02 00

HEATING—Specialized learning experiences concerned with heat generation systems such as oil burners, coal furnaces, and electrical heating units. Instruction emphasizes design, development, testing, and installation and their applications to heating systems.

16.01 10 03 00

REFRIGERATION—Specialized learning experiences concerned with such scientific principles as the laws of gases, the flow of fluids, and automatic control systems as applied to the temperature control of a particular environment, including food warehouses, cryogenic laboratories, and commercial food storage units.

16.01 10 99 00

OTHER ENVIRONMENTAL-CONTROL TECH-NOLOGY-Include here other organized subject matter and experiences empha-sized in environmental-control technology which are not listed above. (Specify.)

16.01 11 00 00 Industrial Technology—A program of instruction designed to develop knowledge and understanding of scientific principles, mathematical concepts, and communicative and technical skills, combined with ap-propriate laboratory experiences which will prepare the pupil to be supportive to the industrial engineer in production and plan-ning. The subject matter emphasizes the design and installation of integrated systems of materials, machinery, equipment, and personnel.

16.01 12 00 00

Instrumentation Technology-A sequence of classroom and laboratory experiences, supported by physical sciences and mathematics, concerned with providing an

TECHNICAL EDUCATION—Continued

understanding in the fields of electricity, electronics, mechanics, pneumatics, and hyelectronics, mechanics, pneumatics, and hydraulics as they pertain to applications of the principles of control and recording systems and automated devices. The instructional program is planned to prepare the pupil to design, develop prototypes, and test and evaluate control systems or automated systems and to prepare graphs. mated systems and to prepare graphs, written reports and test results in support of the professional personnel working in the field of instrumentation.

16.01 13 00 00

Mechanical Technology—A program of instruction designed to develop knowledge and understanding concerning scientific principles, mathematical concepts, and communicative skills, combined with appropriate laboratory experiences which will present a special to become supportive to the pare a pupil to become supportive to the mechanical engineer.

16.01 13 01 00

Energy Conversion—Specialized learning experiences designed to prepare personnel for duties in such fields as steam engineering, fuel and combustion analysis, steam and gas turbines, industrial power plant equipment, and internal combustion engines.

16.01 13 02 00

MACHINE AND TOOL DESIGN-An organization of subject matter and experiences concerned with the preparation of drawings, specifications, calculations, and procedures emphasized in the design or redesign of parts, assemblies, tools, jigs, and fixtures, and the testing of the characteristics and performance of units and components.

16.01 13 03 00

PRODUCTION—Specialized learning experiences designed to prepare personnel to perform duties in such areas of responsibility as process planning, machine selection, materials-handling, quality control, economics of production, inspection, and coordination between engineering design and production. design and production.

16.01 13 99 00

OTHER MECHANICAL TECHNOLOGY-Include here other organized subject matter and experiences emphasized in mechan-ical technology which are not listed above. (Specify.)

16.01 14 00 00

Metallurgical Technology—An organiza-tion of subject matter and laboratory experiences including specialty courses, physical sciences, mathematics, and general edu-cation concerned with the production, research, and/or quality control of metals. The instructional program is designed to prepare pupils for performing duties in such areas as: conducting tests on the properties of metals; pilot and production plant design and development; the development, oper-ation, and alteration of test procedures and equipment; and the collection and and equipment; and the conection and analysis of data and preparation of comprehensive and detailed reports in support of professional personnel in the metallurgical field. (See also 17.24 00 00 00 Metallurgy Occupations under TRADE AND INDUSTRIAL OCCUPATIONS.)

16.01 15 00 00 Nuclear Technology—A combination of subject matter and laboratory experiences designed for the study of scientific principles, mathematical concepts, and communicative and technical skills which, when combined with appropriate laboratory situa-tions, prepare the pupil to be supportive to

professionals engaged in developing, manufacturing, testing, research, maintaining, storing, and handling materials in the nuclear science and energy field. The subject matter emphasizes nuclear physics, radioisotopes, chemistry, electronics, nuclear instrumentation, and safety procedures. Graduates may enter and develop in this field as reactor technicians, radiation safety technicians, and radioactive-materials technicians.

16.01 16 00 00 Petroleum Technology—A planned program of classroom and laboratory experiences which include mathematics, chemistry, physics, petrology, sedimentation, and geophysics as applied to the recovery and use of oil and gas. Instruction leads to preparation for: oil field exploration; supervision of rig construction, drilling, oil field services, crude petroleum production, and petroleum refining; and work in direct support of the engineers and geologists in the oil industry.

16.01 17 00 00

Scientific Data Processing-A combina-Scientific Data Processing—A combination of subject matter and experiences, including scientific principles and mathematical concepts, combined with specialty courses and applied laboratory experiences necessary in preparing pupils to: convert scientific, engineering, and other technical problem formulations to processible forms by computer; resolve symbolic formulations; prepare logical flow charts and block diagrams; encode resolvent equations for processing by applying knowledge of adprocessing by applying knowledge of advanced mathematics, such as differential equations and numerical analysis; and gain understanding of computer capabilities and limitations.

The program is designed to provide in the pupil the capacity to perform such functions as: consulting with engineering and other technical personnel to resolve problems of intent, inaccuracy, or feasibility of computer processing; observing the com-puter during testing or processing runs to analyze and correct programming and coding errors; reviewing results of computer runs for determining necessary modifica-tions and reruns; developing new sub-routines or the extension of the application of available programs; and the development of scientific machine languages to simplify programming statements and coding of future problems.

16.01 99 00 00

Other Engineering-related Technology—Include here other organized subject matter and experiences emphasized in engineering-related technology which are not classifiable or listed above, e.g., ceramics-engineering technology, marine-engineering technology, and mining-engineering technology. (Specify.)

16 02 00 00 00

AGRICULTURAL - RELATED TECH-NOLOGY

That part of the agricultural field which requires the application of scientific knowledge and methods combined with technical skills in support of agricultural activities. Persons prepared in this technology are a part of the team which includes the skilled worker, the technician, and the scientists.

16.02 01 00 00

Animal Science—(For description see 01.01 01 00 00 Animal Science under AGRI-CULTURE.)

16.02 02 00 00

Dairy Technology—(For description see 01.01 01 00 00 Animal Science and 01.04



| 16 TECHNI | CAL EDUCATION—Continued | | are not listed in the above category. (Specify.) |
|----------------|---|----------------|---|
| | 01 02 00 Dairy Products under AGRI-CULTURE.) | 16.05 00 00 00 | |
| 16.02 03 00 00 | Food Processing Technology—(For description see 01.04 01 00 00 Food Products under AGRICULTURE.) | | That part of the home economics occu- pational field which requires the application of knowledge and methods combined with |
| 16.02 04 00 00 | Plant Science—(For description see 01.01 02 00 00 Plant Science under AGRICUL-TURE.) | | technical skills in support of activities con- cerned with children, food services, home furnishings, interior decorating, and related |
| 16.02 99 00 00 | Other Agricultural-related Technology —Include here other organized subject mat- ter and experiences emphasized in agricul- tural-related technology which are not clas- | | activities in the home economics field. Persons prepared in this technology are a part of the team which includes the skilled worker, the technician, and the professional. |
| | sifiable in the engineering-related technology category or are not listed in the above category. (Specify.) | 16.05 01 00 00 | Child Care Center Assistant—(For description see 09.02 01 00 00 Care and Guidance of Children under HOME ECONOMICS.) |
| 16.03 00 00 00 | That part of the health occupations field which requires the application of scientific knowledge and methods combined with | 16.05 02 00 00 | Hospital Children's Division Assistant —(For description see 09.02 01 00 00 Care and Guidance of Children under HOME ECONOMICS.) |
| | technical skills in support of the health occupations. Persons prepared in this tech- nology are a part of the health team which includes the skilled worker, the technician, and the dentist, medical doctor, and other | 16.05 03 00 00 | Teacher's Assistant at the Preprimary Level—(For description see 09.02 01 00 00 Care and Guidance of Children under HOME ECONOMICS.) |
| 16.03 01 00 00 | professionals. Dental Hygiene (Associate Degree)— (For description see 07.01 02 00 00 Dental Hygiene (Associate Degree) under HEALTH | 16.05 04 00 00 | Food Service Supervisor—(For description see 09.02 03 00 00 Food Management, Production, and Services under HOME ECONOMICS.) |
| 16.03 02 00 00 | OČČUPATIONS EDUCATION.) Electroencephalograph Technician— (For description see 07.09 01 00 00 Electroencephalograph Technician under HEALTH | 16.05 05 00 00 | Interior Decorator Assistant—(For description see 09.02 04 00 00 Home Furnishings, Equipment, and Services under HOME ECONOMICS.) |
| 16.03 03 00 00 | OCCUPATIONS EDUCATION.) Medical Laboratory Assisting—(For description see 07.02 03 00 00 Medical Laboratory Assisting under HEALTH OCCU- | 16.05 06 00 00 | Home Equipment Demonstrator—(For description see 09.02 04 00 00 Home Furnishings, Equipment, and Services under HOME ECONOMICS.) |
| 16.03 04 00 00 | PATIONS EDUCATION.) Radiologic Technology (X-ray)—(For description see 07.05 01 00 00 Radiologic Technology (X-ray) under HEALTH OCCUPATIONS EDUCATION.) | 16.05 99 00 00 | Other Home Economics-related Technology—Include here other organized subject matter and experiences emphasized in home economics-related technology which are not listed above. (Specify.) |
| 16.03 05 00 00 | Nursing (Associate Degree)—(For description see 07.03 01 00 00 Nursing (Associate Degree) under HEALTH OCCUPATIONS EDUCATION.) | 16.06 00 00 00 | MISCELLANEOUS TECHNICAL EDU- CATION Examples of other organized technical education which may be classified in this |
| 16.03 99 00 00 | Other Health-related Technology—Include here other organized subject matter and experiences emphasized in health-related technology which are not listed above. (Specify.) | 16.06 01 00 00 | category, are: Commercial Pilot Training—A program of classroom instruction and practical experience, including mathematics and the appropriate physical sciences, designed to prepare the student to pilot and eventually |
| 16.04 00 00 00 | OFFICE-RELATED TECHNOLOGY | | assume command responsibility for aircraft carrying passengers or freight. The program |
| | That part of the office occupations field which requires the application of scientific knowledge and methods combined with technical skills in support of office occupations. Persons prepared in this technology are a part of the office team which includes the skilled worker, the technician, and administrative management personnel. | | is planned to enable the student to acquire competency and knowledge in such fields as: aircraft structure, behavior, and oper- ation; aircraft systems, instrumentation, and controls; radio communications as ap- plied to aircraft; meteorology; navigation; airways safety and traffic regulations; and |
| 16.04 01 00 00 | Computer Programmer—(For description see 14.02 03 00 00 Programmers under OFFICE OCCUPATIONS.) (See also 03.17 04 00 00 Computer Programming under BUSINESS.) | | other aspects of a pilot's duties and responsi- bilities. The student will be expected to become conversant with governmental rules and regulations pertaining to piloting air- craft and will be expected to pass any tests prescribed by the Federal Aviation Agency |
| 16.04 02 00 00 | Systems Analyst Technology—(For description see 14.02 04 00 00 Systems Analysts under OFFICE OCCUPATIONS.) | | for a Commercial Pilot's Certificate upon satisfactory completion of the designated sequence of courses. |
| 16.04 99 00 00 | Other Office-related Technology—Include here other organized subject matter and experiences emphasized in office-related technology which are not classifiable in the engineering-related technology category or | 16.06 02 00 00 | Fire and Fire Safety Technology—A planned sequence of classroom instruction (including the appropriate sciences such as chemistry) and practical experiences designed to prepare the student to function as |

16 TECHNICAL EDUCATION—Continued

a fire control and fire safety specialist. The program is planned to enable the student to acquire competency and knowledge in one or more of such diverse fields as: structural design and materials; meteorological factors impinging upon fire situations; firefighting and control, wherein he inspects equipment and advises as to its proper usage based upon an understanding of the chemistry of combustion and the most modern techniques for coping with fires; the handling of hazardous materials (such as petroleum products, and other volatile, explosive, or corrosive materials) either routinely or in an accident situation; the inspection of public and private property to evaluate fire and fire safety conditions, wherein he makes recommendations for correction of unsafe conditions; advising local governments, private industries, and individual citizens concerning the prevention of accidents and fires; conducting educational activities, though regular school programs or special campaigns, to promote fire safety and the prevention of accidents and fires.

16.06 03 00 00

Forestry Technology—A sequence of classroom and laboratory experiences, including appropriate physical and biological sciences, designed to prepare the student to function as a technical specialist in the utilization of our timber resources. The program is planned to enable the student to acquire competency in one or more of such areas as: harvesting of timber, wherein he surveys timber lands, draws topographical maps, selects trees for cutting, and plans the transportation of logs to mills or loading sites; conducting or assisting in research involving the preparation of wood for commercial use, and the preservation and utilization of wood and its by-products; developing, improving, or determining methods of handling, curing, shaping, and treating wood in the course of manufacturing wooden products; investigating and assisting in setting up chemical or mechanical processes for converting wood into various commodities; and testing wood for such properties as strength, elasticity, and endurance, and recommending proper utili-

16.06 04 00 00

16.06 05 00 00

Oceanographic Technology (Physical, Biological, and Fisheries)—This item is not defined here because it is presently undergoing extensive study and development. Police (Law Enforcement and Corrections) Science Technology-A planned sequence of classroom instruction and laboratory experiences designed to prepare a student to function as one or more of the following: (1) a generalist in any law enforcement agency concerned with patrol and investigative activities, traffic control, initial contact with the public such as obtaining information, preparing reports, and testifying in court; (2) an evidence technician operating in a crime laboratory or mobile unit concerned with the collection, preparation, and transportation of physical evidence—including the use of skills in photography and report writing; and (3) a technician— primarily concerned with delinquency or crime prevention—who may be employed by a police agency, juvenile court, or correctional institution to (a) carry out responsibilities which may include investigation and referral of dependent-neglected children as well as delinquents and youthful offenders, (b) supervise persons on probation, or (c) provide rehabilitative services to offenders.

16.06 99 00 00

Other Miscellaneous Technical Education—Include here other aspects of technical education emphasized in instruction which are not listed in or appropriate to one of the above categories. (Specify.)

TRADE AND INDUSTRIAL OCCUPATIONS 17.00 00 00 00

Trade and industrial occupations is the branch of vocational education which is concerned with preparing persons for initial employment, or for upgrading or retraining workers in a wide range of trade and industrial occupations. Such occupations are skilled or semiskilled and are concerned with layout designing, producing, processing, assembling, testing, maintaining, servicing, or repairing any product or commodity. Instruction is provided (1) in basic manipulative skills, safety judgment, and related occupational information in mathematics, drafting, and science required to perform successfully in the occupation, and (2) through a combination of shop or laboratory experiences simulating those found in industry and classroom learning. Included is instruction for apprentices in apprenticible occupations or for journeymen already engaged in a trade or industrial occupation. Also included is training for service and certain semiprofessional occupations considered to be trade and industrial in nature.

The Ad Hoc Committee for Trade and Industrial Occupations applied the following criteria to the selection of substantive content for placement in the subject-matter area: (1) the content was determined by consensus of the committee to be unique and appropriate to trade and industrial occupations; (2) subject-matter items could be defined in brief form using only salient descriptive elements; and (3) the various aspects of organized subject matter were identifiable by titles which the ad hoc committee considered to be most appropriate to trade and

industrial occupations.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of trade and industrial occupations as an integral part of the instructional program. As an example, the Vocational Industrial Clubs of America provide additional opportunities to develop leadership, civic responsibilities, other qualities, and an understanding of the world of work in trade and industrial occupations. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. They may be designed for participation of pupils as individuals or in groups. A variety of activities is identified under 20.00 00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are discussed more fully in this chapter beginning on page 242. As an illustration, the Vocational Industrial Clubs of America can be identified



17 TRADE AND INDUSTRIAL OCCUPATIONS—Continued

for reporting purposes and further described under Cocurricular Activities as Item 20.01 33 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page11 and in figure 2 on page 13.

17.01 00 00 00 AIR CONDITIONING

Classroom and shop experiences which enable the student to become proficient in the installation, repair, and maintenance of commercial, industrial, and domestic air conditioning systems. Included is instruction in the theory and application of basic principles involved in conditioning of air: cooling, heating, filtering, and controlling humidity; the operating characteristics of various units and parts; blueprint reading; the use of technical reference manuals; the diagnosis of malfunctions; the overhaul, repair, and adjustment of units and parts such as pumps, compressors, valves, springs, and connections; and the repair of electric and pneumatic control systems. (See also 16.01 10 00 00 Environmental-control Technology under TECHNICAL EDUCATION.)

17.01 01 00 00 Cooling—Learning experiences specifically concerned with the installation, operation, testing, and troubleshooting of various types of air cooling equipment, including the controls needed for operation.

17.01 02 00 00 Heating—Learning experiences specifically concerned with the installation, operation, testing, and troubleshooting of various types of heating equipment, including the controls needed for operation.

17.01 03 00 00 Ventilating (Filtering and Humidification)—Learning experiences specifically concerned with the installation, operation, testing, and troubleshooting of various air quality control equipment such as humidifiers, filters, fans, and related equipment.

17.01 99 00 00 Other Air Conditioning—Include here other specialized subject matter and learning experiences emphasized in air conditioning, refrigeration, and heating which are not listed above. (Specify.)

17.02 00 00 00 APPLIANCE REPAIR

Classroom and shop experiences concerned with the theory of electrical circuitry, simple gearing, linkages, and lubrication in the operation, maintenance, and repair of components including relays, time switches, pumps, and agitators used in appliances such as washers, dryers, vacuum cleaners, toasters, water heaters, and stoves. Related training is provided in the uses of familiar tools, test equipment, and service manuals, and in making cash estimates for repairs.

17.02 01 00 00 Electrical Appliances—Learning experiences specifically concerned with the repair, installation, and servicing of electrical appliances.

17.02 02 00 00 Gas Appliances—Learning experiences specifically concerned with the repair, maintenance, and servicing of gas appliances.

17.03 00 00 00 AUTOMOTIVE SERVICES

Classroom and shop experiences which include training in all phases of automotive maintenance repair work on all types of automotive vehicles. Included is training in the uses of technical manuals and a variety of hand and power tools. Instruction and practice are provided in the diagnosis of malfunctions, disassembly of units, parts inspection and repair or replacement of parts involving engine overhaul and repair, ignition systems, carburetion, brakes, transmissions, front-end alignment, and the installation of a variety of accessories such as radios, heaters, mirrors, and windshield wipers. (See also 10.16 00 00 00 Power/Automotive Mechanics under INDUS-TRIAL ARTS.)

17.03 01 00 00 Body and Fender—Specialized learning experiences concerned with all phases of repairing damaged bodies and fenders including metal straightening by hammering, smoothing areas by filing, grinding or sanding, concealment of imperfections, painting, and replacement of body components, including trim.

17.03 02 00 00 Mechanics—Learning experiences concerned with the components of the vehicle, including engine, power transmission, steering, brakes, and electrical systems. Included is training in the use of diagnostic and testing equipment and tools used in the repair process.

17.03 03 00 00 Specialization — Learning experiences which emphasize more detailed training in the adiustment and repair of the automobile, including the radiator, transmission, carburetor, brake system, and other units to achieve greater proficiency in the servicing of selected components.

17.03 99 00 00 Other Automotive Industries—Include here other organized subject matter and learning experiences emphasized in automotive industries which are not listed above. (Specify.)

17.04 00 00 00 AVIATION OCCUPATIONS

Classroom and practical experiences which include instruction relating to aircraft maintenance, aircraft operation, and ground support.

17.04 01 00 00 Aircraft Maintenance—Classroom and shop experiences concerned with the inspection, repair, servicing, and overhauling of all airplane parts, including engines, propellers, instruments, airframes, fuel and oil tanks, control cables, and hydraulic units. Learning the use of technical manuals and various kinds of testing equipment is also emphasized.

AIR FRAME—Specialized classroom and shop experiences concerned with the maintenance and repair of all airplane parts other than engines, propellers, and instruments. Training emphasizes the layout and fabrication of sheet metal and other materials into parts, fittings, and structural members; assembly and installation of structural members; equipment and mechanical parts; and the disassembly and replacement of damaged or worn parts. Training prepares the pupil for the Federal Aviation Agency examination for the air frame mechanic's license.

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TRADE AND INDUSTRIAL **OCCUPATIONS—Continued**

17.04 01 02 00 POWER PLANT—Specialized classroom and shop experiences concerned with the maintenance and repair of all types of power plants for aircraft. Course work includes engine inspection and maintenance; lubrication and cooling; electrical and ignition systems; carburetion, fuels, and fuel systems; and propellers. Training prepares the pupil for the Federal Aviation Agency examination for the power-

plant mechanic's license.

OTHER AIRCRAFT MAINTENANCE—In-17.04 01 99 00 clude here other organized subject matter and learning experiences emphasized in aircraft maintenance which are not listed

above. (Specify.)

17.04 02 00 00 Aircraft Operations—Classroom ractical experiences concerned with the inflight operation of commercial planes, including piloting, navigating, and passenger services, e.g., flight engineer, pilot, and stewardess training.

Operations—Classroom 17.04 03 00 00 Ground practical experiences concerned with the ground support of commercial planes, including passenger service, aircraft preflight service, and flight control, e.g., baggage handler, ticket agent, and traffic controller

17.05 00 00 00 BLUEPRINT READING

Classroom and practical experiences concerned with visualizing, preparing, develop-ing, and interpreting blueprints. Included for study are the principles of sketching and drawing objects or structures; under-standing and utilizing symbols, plans, sections, and details for communicating through blueprints; interpreting blueprints and their related specifications; and translating them into actuality.

17.06 00 00 00

BUSINESS MACHINE MAINTENANCE Classroom and shop experiences concerned with maintaining and repairing a variety of office machines such as typewriters, dictation machines, and calculators; data processing equipment used for recording and processing data; and dupli-cating and mailing machines. Instruction includes diagnostic techniques; understanding of mechanical principles such as those involved in gears, cams, levers, and eccentrics; nomenclatures; uses and care of special hand and power tools; soldering; mechanical drawing; principles of elec-tricity and electronics; uses of testing devices; and business procedures and customer relations.

17.07 00 00 00

COMMERCIAL ART OCCUPATIONS
Organized specialized learning experiences which include theory, laboratory, and shopwork as they relate to the design and execution of layouts and making illustrations for advertising, display, and instructional manuals. Instruction includes advertising theory and preparation of copy, lettering, poster design, fashion illustration, silk screen, air brush and touchup, inks and color dynamics, package and product design, drawings for line and halftone reproduction, and other display devices and exhibits. Instruction leads to preparation for various types of employment such as fashion illustrator, technical illustrator, interior decorator, and advertising artist.

17.07 01 00 00 Interior Decorating—Organized learning experiences concerned with the application of art principles to the design, selection, and arrangement of materials and objects in interiors of residential and commercial structures, and in ships and aircraft to achieve esthetic effects or as a media for conveying ideas.

17.07 02 00 00 Window Display-Organized learning experiences concerned with the application of art principles to the design, selection, layout, and arrangement of materials and objects for the purpose of attracting attention of customers.

17.07 03 00 00 Product Design-Organized subject matter and experiences concerned with application of knowledge of commercial art to the design of commercial products for the purpose of decorative, esthetic effects and current styling consistent with the utilization value of such products. Such occupations also require knowledge of products and production methods.

17.07 99 00 00 Other Commercial Art Occupations-Include here other subject matter and learning experiences emphasized in commercial art occupations which are not listed above. (Specify.)

COMMERCIAL FISHERY OCCUPA-17.08 00 00 00 TIONS

Organized specialized learning experiences which include theory, laboratory, and shopwork as they relate to seamanship, navigation, and communications; utilization of rigging and other equipment; mainte-nance and repair of boats; techniques for finding fish; shipboard preservation and refrigeration; processing catches afloat and on shore; and operation and maintenance of all fishing gear and power plants. Instruction leads to preparation for various types of employment such as fisherman, processor, weigher, and equipment and special gear maintenance man.

17.08 01 00 00 Seamanship-Organized learning experiences concerned with skills of seamanship, including the use and maintenance of line and nets, of navigational aids, and of radio and fundamental electronics equipment; techniques of boat handling, safety and survival at sea, and weather forecasting; and fundamental maintenance of decks and surfaces, engines, and power plants.

Ship and Boat Operation and Mainte-nance—Organized learning experiences concerned with the planning and supervi-17.08 02 00 00 sion of operation, maintenance, and safety of passenger or cargo vessels.

Other Commercial Fishery Occupa-tions—Include here other organized subject matter and learning experiences emphasized 17.08 99 00 00 in commercial fishery occupations which are not listed above. (Specify.)

COMMERCIAL PHOTOGRAPHY OC-17.09 00 00 00 **CUPATIONS**

Organized specialized learning experiences which include theory, laboratory, and studio work as each relates to all phases of camera uses and photographic processing. Instruction includes composition and color dynamics, contact printing, and enlarging; developing film; air brush and retouching, coloring, and copying; utilization of cameras, meters, and other photographic equipment; portrait, commercial, and industrial photography; and processes such as micro-

17 TRADE AND INDUSTRIAL OCCUPATIONS—Continued

filming and preparing copy for other print ing and graphic arts processing.

Instruction also emphasizes the development of skills and knowledge essential for employment in planning, developing, and producing in such areas as audiovisual materials and telecasting, and for employment as a commercial photographer, airbrush man, cameraman (offset printing), audiovisual projectionist, and cameraman (broadcasting).

17.09 01 00 00 Photographic Laboratory and Darkroom Occupations—Subject matter and
learning experiences concerned primarily
with developing and printing photographic
still or motion picture film; controlling resultant prints; touch up of negatives; and
finishing, coloring, restoring, and copying

17.09 99 00 00 Other Commercial Photography Occupations—Include here other subject matter and learning experiences emphasized in commercial photography which are not listed or classifiable above. (Specify.)

17.10 00 00 00 CONSTRUCTION AND MAINTE-NANCE TRADES

Classroom and shop experiences concerned with the erection, installation, maintenance, or repair of buildings, highways, airports, missile sites, and earth and other structures using assorted materials such as metal, wood, stone, brick, glass, concrete, or composition substances. Instruction is provided in a variety of activities such as cost estimating; cutting, fitting, fastening, and finishing various materials; the uses of a variety of hand and power tools; and blueprint reading and following technical specifications. Knowledge concerning the physical properties of materials is also emphasized.

17.10 01 00 00 Carpentry—Classroom and shop experiences involving layout, fabrication, assembly, installation, and repair of structural units. Emphasized in instruction are the care and use of hand and power tools; equipment and materials; common systems of frame construction and the principles involved; and drafting, blueprint reading, applied mathematics, and materials estimating.

17.10 02 00 00 Electricity—Classroom and shop experiences concerned with the layout, assembly, installation, testing, and maintenance of electrical fixtures, apparatus, and wiring used in electrical systems. Instruction is provided in the reading, interpretation, and understanding of residential, commercial, and industrial wiring based on controlling electrical codes.

17.10 03 00 00 Heavy Equipment (Construction)—
Classroom and practical work experiences concerned with the operation, maintenance, and repair of heavy-duty equipment such as bulldozers, cranes, graders, tractors, concrete mixers, crawler-mounted shovels, trailer-mounted compressors, and the gasoline or diesel engines powering the equipment.

17.10 03 01 00 MAINTENANCE—Specialized classroom and practical work experiences concerned with (1) the field maintanance of earthmoving equipment, and (2) the general maintenance and overhaul of such equip-

ment. Instruction covers inspection; maintenance and repair of tracks, wheels, and brakes; operating controls; electrical circuits; engines; and techniques in welding and brazing.

OPERATION—Specialized classroom and practical work experiences concerned with the uses, care, and operation of a variety of earthmoving equipment such as crawler tractors, motor graders, and motor scrapers; shovels, including dragline and hoe; and cranes. Instruction provides for experiences in digging, ditching, sloping, stripping, grading, back filling, clearing, and foundation excavating.

17.10 04 00 00 Masonry—Specialized classroom and shop experiences concerned with the cutting, chipping, and fixing in position of concrete blocks, brick, and glass blocks using bonding materials and hand tools. Included is training in reading architectural plans, planning, and estimating.

17.10 03 02 00

17.10 05 00 00 Painting and Decorating—Specialized classroom and shop experiences concerned with the preparation and finishing of exterior and interior surfaces by the application of protective or decorative coating materials such as lacquer, paint, and wallpaper. Instruction includes experiences in scraping, burning, or sanding surfaces; making, mixing, and matching paints and colors; and applying coating with brush, roller, or spray gun, or by cutting, pasting, and hanging wallpaper.

17.10 06 00 00 Plastering—Specialized classroom and shop experiences concerned with the application of plaster, stucco, and similar materials to interior and exterior surfaces of structuses. Instruction includes the preparation of surfaces and the smoothing and finishing of them.

17.10 07 00 00 Plumbing and Pipe fitting—Specialized classroom and shop experiences concerned with layout assembly, installing, altering, and repairing piping systems, including related fixtures and fittings in structures, by the use of pipecutting, bending, and threading tools; welding, soldering, and brazing equipment; and other hand and power tools and equipment.

17.10 08 00 00 Drywall Installation—Organized learning experiences concerned with the installation of wallboard, plasterboard, or other interior surfaces of structures.

17.10 09 00 00 Glazing—Organized learning experiences concerned with preparing, fitting, and installing glass in structures and other openings of buildings such as windows, doors, and partitions or in objects such as display cases and table tops.

17.10 10 00 00 Roofing—Organized learning experiences concerned with covering roofs and exterior walls of structures with waterproofing or insulating materials such as asphalt, aluminum, slate, wood, and related composition materials.

17.10 99 00 00 Other Construction and Maintenance
Trades—Include here other subject matter
and learning experiences emphasized in construction and maintenance trades which
are not listed above. (Specify.)

17.11 00 00 00 CUSTODIAL SERVICES

Classroom and shop experiences which are concerned with all phases of the care and cleaning of buildings, fixtures, and furnishings, including all types of building



17 TRADE AND INDUSTRIAL OCCUPATIONS—Continued

interiors such as linoleum, plastic, terrazzo, tile, and wood floors; rugs; and plastic, wood panel, paint, and synthetic wall coatings. Skills are taught in the use and care of hand and power tools of such operations as dusting, dust mopping, wet mopping, scrubbing, waxing, and refinishing, and the cleaning of toilet rooms, windows, and walls.

Additional emphasis is on (1) characteristics of various cleaning agents and protective coatings—including their reactions on surfaces—and procedures of applying them; (2) sanitation and disinfectants; (3) scheduling work, and (4) purchasing custodial supplies.

17.12 00 00 00 DIESEL MECHANIC

Classroom and shop experiences which are concerned with all phases of repair work on diesel engines used to power buses, ships, trucks, railroad trains, electric generators, construction machinery, and similar equipment. Instruction and practice are provided in the diagnoses of malfunction; disassembly of engines and examination of parts; reconditioning and replacement of parts; repair and adjustment of fuel injection systems, oil and water pumps, generators, governors, auxiliary and accompanying power units, controls, and transmissions. The uses of technical manuals, a variety of hand and power tools, and testing and diagnostic equipment are also studied.

17.13 00 00 00 DRAFTING OCCUPATIONS

Organized specialized learning experiences which emphasize theory, use of the drafting room, and laboratory and shopwork as each relates to gathering and translating data or specifications, including the aspects of planning, preparing, and interpreting mechanical, architectural, structural, pneumatic, marine, electrical/electronic, topographical, and other drawings and sketches. Instruction is designed to provide experiences in drawing; in the use of reproduction materials, equipment, and processes; the preparation of reports and data sheets for writing specifications; the development of plan and process charts and drawings; and the development of models.

Instruction emphasizes the development of skills and knowledge essential for employment in ancillary capacities such as tracers or reproduction equipment operators, and for occupations such as mechanical draftsman, structural draftsman, detailer, marine draftsman, tool designer, fixture designer, and punch and die designer. (See also 10.03 00 00 00 Drafting under INDUSTRIAL ARTS.)

17.14 00 00 00 ELECTRICAL OCCUPATIONS

Organized subject matter and experiences which include theory, laboratory, and shopwork as each relates to planning functions, generating and transmitting electricity, installing and maintaining electrical and communications systems, and equipment and components. Instruction emphasizes practical applications of mathematics, the sciences, circuit diagrams and blueprint reading, sketching, and other subjects essential to preparation for employment in the electrical occupations. (See also 10.04

00 00 00 Electricity/Electronics under IN-DUSTRIAL ARTS.)

17.14 01 00 00 Industrial Electrician—Specialized classroom and practical instruction related to
the maintenance and repair of a variety of
industrial machinery driven by electric
motors, or which are electrically controlled.

17.14 02 00 00 Lineman—Specialized classroom and practical experiences concerned with the installation and operation and maintenance of local, long-distance, and rural lines, including pole- and tower-line erection and construction.

17.14 03 00 00 Motor Repairman—Specialized classroom and practical experiences concerned with the assembly, installation, testing, maintenance, and repair of electric motors, generators, transformers, and related equipment.

17.14 99 00 00 Other Electrical Occupations—Include here other subject matter and learning experiences emphasized in electrical occupations which are not listed above. (Specify.)

17.15 00 00 00 ELECTRONICS OCCUPATIONS

Organized specialized learning experiences which include theory, laboratory, and shopwork as each relates to planning, producing, testing, assembling, and installing and maintaining electronic communications equipment such as radio, radar, and television; industrial electronic equipment, including digital computers; new electronic systems, components, and equipment; and control devices. Emphasis is on solid-state devices and components, electron tube characteristics, low-frequency amplifiers, LC and RC Oscillators, transistors, and amplitude and frequency modulation. Instruction is designed to develop knowledge, understanding, and skills essential for employment in communications, industrial electronics, radio/television, and other electronics occupations. (See also 10.04 00 00 00 Electricity/Electronics under INDUSTRIAL ARTS.)

17.15 01 00 00 Communications—Specialized classroom and practical experiences concerned with the assembly, installation, operation, maintenance, and repair of communications equipment and systems of all types, e.g., industrial and entertainment sound systems, data processing, telephone dial systems, two-way radio, central circuits, hearing aids, and high-fidelity receiving sets.

17.15 02 00 00 Industrial Electronics—Specialized classroom, laboratory, and practical experiences
which are concerned with the basic elements
of vacuum tubes and circuitry; using and
servicing testing equipment and troubleshooting circuits; the study of and experience in repairing photoelectric controls,
timers, selector switches, counters, recorders, and transducers; solid-state devices
and components; the study of the characteristics and intricacies of equipment and
components used in industry and research
centers.

More advanced instruction includes study, analysis, and repair of magnetic amplifiers, motors, motor controls, electronic heating, saturable reactors, servomechanisms, pulse circuits, computers, and test instruments—including basic principles and servicing procedures. Field trips are frequently emphasized.

17.15 03 00 00 Radio/Television—Specialized theory and practice which are concerned with the construction, maintenance, and repair of radios

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TRADE AND INDUSTRIAL **OCCUPATIONS—Continued**

and television sets. Training also prepares pupils to diagnose troubles and make repairs on other electronic products such as high-fidelity sound equipment, phonographs, and tape recorders.

17.15 99 00 00

Other Electronics Occupations-Include here other subject matter and learning experiences emphasized in electronics occupations which are not listed above. (Specify.)

17.16 00 00 00

FABRIC MAINTENANCE SERVICES

Classroom and laboratory experiences which are concerned with all phases of maintenance service on all types of fabrics. Instruction emphasizes identifying, marking and entering, sorting, assembling, wrapping, and bagging clothing and other fabrics; a wide range of information dealing with a wide range of information dealing with drycleaning and spotting agents, deter-gents, bleaches, and dyes; effects of heat on various fabrics; skills involved in the use of hand tools and power equipment such as power presses for flat work, roller presses, washers, extractors, and dryers; and alteration and repair of fabrics.

17.16 01 00 00 Drycleaning-Classroom and practical experiences concerned with theory and knowledge in drycleaning plant management and processes. Instruction includes receiving garments, inspecting, dry and wet cleaning, identifying spots and spotting, pressing, dyeing, and sorting and wrapping wearing dyeing, household furnishings, and other apparel, household furnishings, and other articles of textile construction or leather. Also emphasized are experiences concerned with various cleaning agents, kinds of fabrics, alteration and repair of articles, and uses of hand and power tools and equipment.

17.16 02 00 00 Laundering-Classroom and practical experiences concerned with theory and knowledge in laundering plant management and processes. Instruction includes receiving garments, inspecting, washing fabrics, spotting, ironing and pressing, dyeing, bleaching, sorting, and folding and wrapping wearing apparel and household and other articles of textile construction. Also emphasized are experiences concerned with various cleaning agents (including detergents), types of fabrics, and uses of hand and power tools and equipment.

17.16 99 00 00

Other Fabric-maintenance Services-Include here other subject matter and experiences emphasized in fabric-maintenance services which are not listed above. (Specify.)

17.17 00 00 00 FOREMANSHIP, SUPERVISION, AND MANAGEMENT DEVELOPMENT

Planned learning experiences designed to Planned learning experiences designed to assist the supervisor in effectively utilizing the men, machines, and materials under his supervision by broadening his background knowledge and developing his leadership abilities. Included is the study of human behavior, organization and management, oral communication, labor laws, personnel procedures, job analysis, work simplification, employee utilization, and the development of writing techniques as applied to the preparation of letters, memos, and technical reports, speedreading, and safety and first-aid practices.

17.18 00 00 00 GENERAL CONTINUATION

(For description see X 02 45.23 General Continuation Class, page 62.)

17.19 00 00 00 GRAPHIC ARTS OCCUPATIONS

Organized specialized learning experiences which include theory, laboratory, and shopwork as they relate to all phases of hot and cold typesetting, layout, composition, presswork, and binding, including flexography, lithography, photoengraving, and other graphic arts related to the printing industry. Emphasis is on typographical layouts and design, hand and machine typesetting, camera and plate work, imposition, typecasting, offset and platen press makeup and operation, papercutting, ink and color preparation, binding, and production by silkscreen process. Instruction leads to preparation for various types of employment such as typesetter, compositor, cameraman, platemaker, cost analyst, expediter, and production planner.

17.19 01 00 00

Composition, Makeup, and Typeset-ting—Organized learning experiences conting—Organized learning experiences concerned with layout, composition, makeup, and hand and machine typesetting and typecasting.

17.19 02 00 00

Printing Press Occupations—Organized learning experiences concerned with making ready, operating, and maintaining printing

17.19 03 00 00

Lithography, Photography, and Platemaking—Organized learning experiences concerned with lithography, lithographic photography, stripping, and related platemaking processes.

17.19 04 00 00 Photoengraving—Organized learning experience concerned with photographing illustrations and other copy that cannot be set up in type, developing negatives, and preparing photosensitized metal plates for use in printing.

17.19 05 00 00

Silk Screen Making and Printing—Organized learning experiences concerned with the preparation of silk screens and the operations of silk screen printing.

17.19 06 00 00

Bookbinding-Organized learning experiences concerned with gathering pages, forms, and related materials and assembling them into books or pamphlets. Included are techniques concerned with binding and repairing books and documents.

17.19 99 00 00

Other Graphic Arts-Include here other subject matter and learning experiences em-phasized in graphic arts which are not listed above, including those involving new methods and technologies. (Specify.)

17.20 00 00 00

INDUSTRIAL ATOMIC ENERGY OC-**CUPATIONS**

Organized specialized learning experiences which include theory, laboratory, and shopwork as they relate to (1) the construction, operation, and maintenance of reactor plants and industrial "X-ray" equipment, and (2) the industrial uses of radioisotopes for production and control operations. Almost every form of mechanical, electrical, electronic, and chemical skills and equipment generally used in industry may be involved.

17.20 01 00 00

Installation, Operation, and Maintenance of Reactors-Organized learning experiences which are concerned with atomic reactor plants and their use. Emphasized in addition to the knowledge and

TRADE AND INDUSTRIAL OCCUPATIONS—Continued

skills required in general construction of reactor plants are the related factors of reactor theory, operating characteristics and limitations, instrumentation, radiation hazards, maintenance, and emergency and safety procedures.

17.20 02 00 00 Radiography—Organized learning experiences which are concerned with the installation, safe operation, interpretation, and maintenance of industrial "X-ray" equipment. Training also includes atomic theory, operating procedures, radiation protection standards and instruments, photographic film, and interpretation of film exposures.

17.20 03 00 00

Industrial Uses of Radioisotopes—Organized learning experiences which are con-cerned with the industrial use of radioisotopes in production and control oper-ations. Training also includes atomic theory, electrical and electronic theory, operating procedures, specialized instru-mentation, radiation protection, process and quality controls, interpretation, and recordkeeping.

17.20 99 00 00

Other Industrial Atomic Energy Occupations-Include here other subject matter and experiences emphasized in industrial atomic energy occupations which are not listed above. (Specify.)

17.21 00 00 00

INSTRUMENT MAINTENANCE AND REPAIR OCCUPATIONS

Classroom, laboratory, and practical experiences concerned with maintaining and repairing meters, instruments, watches and clocks, and other physical measuring devices. Instruction includes experiences in diagnosing malfunctions, disassembling, repairing and/or replacing faulty parts, cleaning, assembling and adjusting, and using special bench and hand tools, meters, and

17.21 01 00 00 Instruments (other than watches and clocks)—Classroom, laboratory, and practical experiences concerned with maintaining and repairing various types of meters and other types of measuring and control devices, e.g., heating and air-conditioning controls; dial pressure gauges; scales and balances; electrical controlling, measuring, and recording devices; optical instruments; and navigational and aeronautical instruments. Instruction includes experiences in diagnosing malfunctions, disassembling, repairing and/or replacing faulty parts, cleaning, assembling and adjusting, and using special bench and handtools, meters, and standards.

17.21 02 00 00

Watchmaking and Repair—Classroom, laboratory, and practical experiences con-cerned with making, maintaining, and repairing clocks, watches, chronometers, and similar types of time-measuring devices. Instruction includes training in diagnosing malfunctions; disassembling and repairing or replacing faulty parts; cleaning, assembling, and adjusting parts; estimating repair costs; and replacing straps and bands, crystals, crowns, and hands. The various kinds and uses of special watchmaker's bench and hand tools, e.g., lathe, staking tool, loupe, pliers, truing calipers, poising tool, timing machine, tweezers, soldering devices, pallet warmer for burnishing, and grinding, drilling, and polishing tools and devices are

included in instruction. Cleaning and performing other operations are emphasized as well as the types and uses of various materials including metals, plastics, chemicals, oils, waxes, and abrasive powders.

17.22 00 00 00

MARITIME OCCUPATIONS

Classroom, laboratory, theory, and practical experiences concerned with preparation for the performance of tasks on fresh-water and seagoing ships, tugboats, barges, floating drydocks, and other marine craft and floating structures, as well as related harbor and dock machinery and equipment. Firefighting, lifeboat work, and swimming are taught to all pupils. Emphasis is on fiber and wire rope handling and splicing, chipping and painting the hull, cargo handling gear and ground tackle, and watchstanding and look out in the deek department. and lookout in the deck department; maintenance, operation, repair, and servicing main engines and auxiliary steam, refriger-ation, water, and electrical systems in the engine department; and storekeeping, food preparation and service, and cabin upkeep

in the steward department.

Instruction leads to preparation for various types of employment, such as able-bodied seaman, ship's carpenter, deckmaintenance man, quartermaster and boatswain, oiler, fireman-watertender, electrician, junior engineer, cook, chief steward, and wiper (engineroom), as well as em-ployment ashore, e.g., stationary engineer, cargo handling or rigging operations.

17.23 00 00 00

METALWORKING OCCUPATIONS

Organized specialized learning experiences which include theory, laboratory, and shopwork as they relate to the planning, manufacturing, assembling, testing, and repairing of parts, mechanisms, machines, and structures in which materials are cast, formed, shaped, molded, heat treated, cut, twisted, bent, pressed, stamped, fused, marked, or otherwise worked upon.

Instruction emphasizes the acquisition of knowledge, skills, and understanding which lead to preparation for various types of skilled and semiskilled employment such as schied and semistanted employment such as sheetmetal man, toolmaker, foundryman, welder, millwright, production machinetool operator, production molder, metalstamping operator, and metal patternmaker, as well as helper-type jobs such as materials handler, and machine cleanup

17.23 01 00 00

Foundry-Specialized classroom and shop experiences designed to provide knowledge of the theory and applications of foundry practice in ferrous and nonferrous foundries. Instruction emphasizes foundry equipment. various sands and refractories, sand and machine molding, foundry chemistry and metallurgy, coremaking, chipping, and grinding.

17.23 02 00 00

Machine Shop—Specialized classroom and shop experiences concerned with all aspects of shaping metal parts. Instruction involves making computations relating to work di-mensions, tooling, feeds, and speeds of machining. Also emphasized are: work on machining. Also emphasized are: work on the bench, and on lathes, shapers, milling machines, grinders and drills; the uses of precision measuring instruments such as layout tools, micrometers, and gages; meth-ods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts. Instruction pre17.23 06 01 00

17.23 06 02 00

17.23 06 03 00

17.23 06 04 00

17 TRADE AND INDUSTRIAL OCCUPATIONS—Continued

pares the pupil to operate and repair all machines.

17.23 03 00 00 Machine Tool Operation—Specialized learning experiences designed to prepare a semiskilled worker to run only one machine, e.g., lathe, grinder, drill press, milling machine, or shaper.

17.23 04 00 00 Metal Trades (combined)—Specialized learning experiences designed to prepare an all-round metalworker capable of fabricating and assembling a variety of products in many industries. Instruction includes layout; sequence of operations; setting up and operating fabricating machines; positioning, aligning, fitting, and welding parts together; and designing and constructing templates and fixtures.

17.23 05 00 00 Sheet Metal—Specialized classroom and shop experiences concerned with the layout, fabrication, erection or installation, and maintenance of items made of steel, copper, stainless steel, and aluminum such as ventilating, air conditioning, and heating ducts, kitchen equipment, signs, furniture, and skylights. Instruction emphasizes the use of handtools and machines such as the cornice brake, forming rolls, and squaring shears; drafting; and blueprint reading.

17.23 06 00 00 Welding and Cutting—Specialized classroom and shop experiences concerned with
all types of metal welding, brazing, and
flame cutting. Instruction emphasizes properties of metals, blueprint reading, electrical
principles, welding symbols, and mechanical
drawing.

GAS WELDING—Specialized classroom and shop learning experiences concerned with the use of gas welding equipment to weld metal parts together and planning and laying out work from drawings, blueprints, or other written specifications.

ELECTRIC WELDING—Specilaized classroom and shop learning experiences concerned with the use of arc and other electric welding equipment to weld metal parts together, as specified by drawings, blueprints, or other written specifications. Instruction is also given in inert-gas shielded arc welding with manually operated torch and semiautomatic gun.

COMBINATION WELDING-Specialized

classroom and shop learning experiences concerned with the use of both gas welding and any combination of arc welding processes to weld metal parts together, according to diagrams, blue-prints, or other written specifications.

BRAZING AND SOLDERING OPERATIONS—Specialized classroom and shop learning experiences concerned with setting up and operating induction heating equipment to braze (bond) together metal components, including instruction in the use of blueprints and electric or gas-fired ovens and equipment.

17.23 06 99 00 OTHER WELDING AND CUTTING—Include here other subject matter and experiences emphasized in welding and cutting which are not listed above. (Specify.)

17.23 07 00 00 Tool and Die Making—Organized class-

On OO Tool and Die Making—Organized classroom and shop learning experiences concerned with analyzing specifications, laying out metal stock, setting up and operating machine tools, and fitting and assembling parts to make and repair metalworking dies, cutting tools, jigs, fixtures, gages, and machinists' handtools, including instruction in the application of tool-and-die designs and construction, shop mathematics, metal properties, and layout, machining, and assembly procedures.

17.23 08 00 00 Die Sinking—Organized classroom and shop learning experiences concerned with laying out, machining, and finishing impression cavities in die blocks to produce forging dies, including instruction in the use of blueprints and methods of die sinking.

17.23 09 00 00 Metal Patternmaking—Organized classroom and shop learning experiences concerned with fitting, assembling, and handfinishing castings and parts in making metal
foundry patterns, including instruction in
the use of handtools and analysis of specifications according to patternmaking methods.

17.23 99 00 00 Other Metalworking Occupations—Include here other organized subject matter and learning experiences emphasized in metal-working occupations which are not listed above. (Specify.)

17.24 00 00 00 METALLURGY OCCUPATIONS

Classroom and laboratory experiences concerned with assisting in examining and testing metal samples under the direction of physical metallurgists for determining the physical properties of metals, e.g., crystalline structure, porosity, homogeneity, and other characteristics. Instruction includes examining metals with x-ray, gamma ray, and magnetic-flux equipment for detecting defects, and the use of pressure devices, hot-acid baths, and other apparatus to test hardness, toughness, and other properties of metals. (See also 16.01 14 00 00 Metallurgical Technology under TECHNICAL EDUCATION.)

17.26 00 00 00 PERSONAL SERVICES

Planned learning experiences concerned with rendering a variety of personal services related to the physical appearance of individuals. These experiences include giving various kinds of beauty treatment, applying makeup to faces of studio and stage performers, attending clients taking baths, administering elementary massage, and fitting wigs.

17.26 01 00 00 Barbering—Classroom and practical experiences concerned with haircutting and styling, shaving, shampooing, and massaging. Emphasis is on hygiene, skin and scalp diseases, and sterilization of instruments and utensils. Instruction is designed to qualify pupils for licensing examinations.

Cosmetology—Classroom and practical experiences concerned with a variety of beauty treatments, including the care and beautification of the hair, complexion, and hands. Instruction includes training in giving shampoos, rinses, and scalp treatments; hair styling, setting, cutting, dyeing, tinting, and bleaching; permanent waving; facials; and manicuring and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management (including keeping records), and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.

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17.26 02 00 00

TRADE AND INDUSTRIAL **OCCUPATIONS—Continued**

17.26 99 00 00 Other Personal Services—Include here other organized subject matter and learning experiences emphasized in personal services which are not listed above. (Specify.)

PLASTICS OCCUPATIONS 17.27 00 00 00

Classroom and shop experiences dealing with plastics and their characteristics, and with bench molding, fitting, internal carving, and finishing plastic and fiberglass materials into products. Instruction includes using hand and power tools.

PUBLIC SERVICE OCCUPATIONS 17.28 00 00 00

Planned learning experiences concerned with training for the performance of occupations in local, State, and Federal government agencies. These occupations usually are concerned with specialized activities are concerned with specialized activities limited to local, county, State, and Federal governments, and do not occur elsewhere in the economy. Typical activities include police and fire protection, emergency and rescue squad work, safety, sanitation, transportation, and school bus driving.

17.28 01 00 00

Fireman Training—Specialized class and practical experiences concerned with the practices and techniques of firefighting. Instruction treats the organization of a community fire department; the chemistry of fire; the use of water and other materials in fighting fires; the various kinds of fire-fighting equipment and aids and their uses, such as extinguishers, pumps, hose, rope, ladders, gas masks, hydrants, and standpipe and sprinkler systems; methods of entry; rescue principles, practices, and equipment; salvage equipment and work; fire and arson investigation; inspection techniques; and radiation hazards.

17.28 02 00 00

Law Enforcement Training—Specialized class and practical experiences designed to supplement the training provided by offi-cially designated law enforcement agencies. Instruction includes acquiring and maintaining the uniform; patrolling on foot or in an automobile during the day or at night; dealing with misdemeanors, felonies, traffic violations, and accidents; making arrests; and testifying in court.

17.28 99 00 00

Other Public Service Occupations-Include here other organized subject matter and learning experiences emphasized in public service occupations which are not listed above. (Specify.)

17.29 00 00 00

QUANTITY FOOD OCCUPATIONS

Organized specialized learning experiences which include theory, laboratory, and shopwork as they relate to planning, selecting, purchasing, preserving, preparing, and serving food and food products. Included is the study of a variety of foods and their nutritional values, food processing, quantity cooking, storing equipment, and sanitation in food handling and manage-

Instruction emphasizes quantity food service occupations in commercial food service establishments such as restaurants, service establishments such as restaurants, cafeterias, drive-ins, tearooms, bakeries, and meat, fish, and poultry markets; in other retail food shops which are operated independently or are located in enterprises such as hotels, travel terminals, industrial plants, hospitals, or clubhouses; and in

special food services such as those associated with airline catering or with takeout food establishments. Instruction is designed to prepare pupils for occupations such as baker, cook, chef, and meatcutter, or in baker, cook, chef, and meatcutter, or in planning, purchasing, preparing, storing, and preserving foods, or for services such as busboy, waiter, or waitress. (See also 04.07 00 00 00 Food Services under DISTRIBUTIVE EDUCATION, and 09.02 03 00 00 Food Management, Production, and Services under HOME ECONOMICS.)

17.29 01 00 00 Baker-Specialized classroom and practical work experiences associated with the preparation of bread, crackers, cakes, pies, pas-tries, and other bakery products for retail distribution or for consumption in a commercial food service establishment. Inmercial food service establishment. Instruction includes making, freezing, and handling of bake products; decorating; counter display; and packaging of merchandise. Training prepares the pupil as an all-round baker, although he may be employed in the production of any one type of goods such as pastries.

17.29 02 00 00

Cook/Chef—Specialized classroom and practical work experiences concerned with the preparation and cooking of a variety of foods. Included is study of the use and care foods. Included is study of the use and care of equipment; food standards such as the selection and preparation of food and the determination of size of servings; sanitation procedures, including food handling; cooking methods such as broiling and steaming; and preparation of special dishes such as soups, salads, garnishes, souffles, and meringues. Although the pupil qualifies as an all-round worker, he may, depending on the size of the establishment, specialize in preparation of specific types of foods, e.g., meats, vegetables, or sauces.

Meat Cutter—Specialized classroom and

17.29 03 00 00

Meat Cutter-Specialized classroom and practical work experiences concerned with the cutting, trimming, and preparation of carcasses and consumer-size portions for sale by wholesale or retail establishments, or for cooking in a food service establishment. Instruction is provided in the use of certain meatcutting tools, identification of and techniques used in cutting different cuts of meats, dressing poultry, processing fish, counter display, and refrigeration of meats, poultry, and fish.

17.29 04 00 00

Waiter/Waitress—Specialized classroom and practical work experiences in table preparation, food handling, and serving. Instruction is provided in personal cleanliness and appearance, sanitary handling of food and equipment, setting a table, receiving and seating guests, taking orders and interpreting the menu, carrying the tray and dishes, placing orders in the kitchen, serving procedures, making out checks, accepting money and making change for checks. for checks, and proper relations with fellow employees and customers.

17.29 99 00 00

Other Quantity Food Occupations-Include here other organized subject matter and learning experiences emphasized in quantity food occupations which are not listed above. (Specify.)

17.30 00 00 00

REFRIGERATION

Classroom and shop experiences con-cerned with commercial chilling and freezing systems, including theory, application, and operation of compressors, expansion and float valves, thermostats, and pressure



17 TRADE AND INDUSTRIAL OCCUPATIONS—Continued

controls; diagnosing, overhauling, and testing methods and procedures; charging and discharging systems with refrigerants; and testing hermetic units, relays, and overload devices.

17.31 00 00 00 SMALL ENGINE REPAIR (INTERNAL COMBUSTION)

Classroom and shop experiences concerned with maintaining and repairing a variety of small engines used on portable power equipment, e.g., lawnmowers, outboard motorboats, chain saws, and Rototillers. Instruction includes principles of internal-combustion engine operation, reading technical manuals, and customer relations.

17.32 00 00 00 STATIONARY ENERGY SOURCES OCCUPATIONS

Organized specialized learning experiences, including theory, laboratory, and shopwork as each relates to the installation, operation, and maintenance of large power sources for purposes such as generating electricity, pumping, and heating. Major equipment involved may be turbines (steam, gas, or hydro), engines (diesel or gas), atomic reactors, or furnaces.

17.32 01 00 00 Electric Power Generating Plants—Organized learning experiences concerned with the installation, operation, and maintenance of electric power generating stations from which the electricity may be either for sale or industrial use. Instruction, in addition to that required in general construction, also includes theory, operation, and maintenance of gas, oil, or coal furnaces; atomic reactors; boilers; electrical generators; steam, gas, hydroturbines, and diesel engines; special instrumentation; control; and emergency and safety procedures. Occupational preparation may be designed to provide specialization for a specific type of electric power generating plant construction or operation, e.g., steam, hydro, atomic, diesel, or gas turbine.

17.32 02 00 00 Pumping Plants—Organized learning experiences concerned with the installation, operation, and maintenance of pumping installations handling liquids, gases, or solids for remote delivery through pipelines or for local use. Pumps are commonly driven by electric motors, diesel engines, or gas turbines. Instruction includes theory, operation, and maintenance of pumps, pipelines, motors, engines, and gas turbines as well as instrumentation and control.

17.32 99 00 00 Other Stationary Energy Sources Occutions—Include here other organized subject matter and learning experiences emphasized in stationary energy-sources occupations which are not listed above. (Specify.)

17.33 00 00 00 TEXTILE PRODUCTION AND FABRI-CATION

Classroom and shop experiences concerned with all aspects of the fabrication of textiles and kindred materials. Instruction emphasizes the fabrication and repair of garments constructed of cotton, wool, synthetic fibers, or fur; apparel accessories, e.g., handbags, belts, shoes, and gloves; white goods such as sheets and pillowcases and furnishings, such as slipcovers, drapes,

and curtains. (See also 09.02 02 00 00 Clothing Management, Production, and Services under HOME ECONOMICS.)

17.33 01 00 00 Dressmaking—Specialized classroom and laboratory experiences concerned with the construction, alteration, and fitting of women's apparel such as dresses, coats, and suits. Instruction includes sketching; style, line, and color in fashion design; patternmaking; cutting fabric to patterns; draping; machine and handstitching; altering finished garments, including cleaning and pressing; classification, identification, and selection

17.33 02 00 00 Tailoring—Specialized learning experiences concerned with the fabrication and alteration, by hand and machine, of all types of men's, women's, and children's outer garments. Instruction includes taking measurements, preparing patterns, cutting, sewing, and fitting; hand and powered-machine sewing; hand and machine pressing; and making repairs and alterations from start to finish, according to patterns and the designer's specifications.

17.33 99 00 00 Other Textile Production and Fabrication—Include here other organized subject matter and learning experiences emphasized in textile production and fabrication which are not listed above. (Specify.)

17.34 00 00 00 LEATHERWORKING

of fabrics.

Classroom and shop experiences concerned with the fabrication and repair of all types of leather and artificial leather products. Instruction emphasizes types and care of footwear, e.g., shoes, boots, moccasins, sandals, and slippers; kinds and uses of tools and machines; shoe construction; shoe repairing, including replacement of worn parts such as heels and soles, and sewing parts that need mending; orthopedic shoemaking and repair; leather refinishing and dyeing; salesmanship; and simple book-keeping. Repairing of other articles such as handbags, luggage, and belts may be included in instruction.

17.34 01 00 00 Shoe Manufacturing—Organized classroom and shop learning experiences concerned with the fabrication of all types of
footwear, including orthopedic shoes. Instruction emphasizes the various parts of the
shoe, types of shoes, and the different operations related to the making of shoes; the
characteristics of leather; leather finishing;
and the use of power sewing, cutting, and
trimming machinery.

Shoe Repair—Organized classroom and shop learning experiences concerned with the repair of all types of footwear. Instruction emphasizes types and care of shoes; kinds and uses of tools and machines; shoe construction; shoe repairing, including replacement of worn parts such as heels and soles, and sewing parts that need mending; orthopedic shoemaking and repair; leather refinishing and dyeing; salesmanship and simple bookkeeping. Repairing of other articles, such as handbags, luggage, and belts may be included in instruction.

17.34 99 00 00 Other Leatherworking—Include here other subject matter and experiences emphasized in leatherworking which are not listed or classifiable above. (Specify.)

17.35 00 00 00 UPHOLSTERING

17.34 02 00 00

Classroom and shop experiences concerned with all aspects of upholstering, in-

17 TRADE AND INDUSTRIAL OCCUPATIONS—Continued

cluding furniture, automobile seats, caskets, mattresses, and bedsprings. Instruction includes history and styles of furniture; installing, repairing, arranging, and securing springs, filler, padding, and covering material; patternmaking; cutting, sewing, and trimming outside coverings; cushion filling; styling and designing; tufting and buttoning; and wood refinishing.

17.36 00 00 00

WOODWORKING OCCUPATIONS

Classroom and shop experiences concerned with woodworking occupations other than construction carpentry. Instruction emphasizes laying out and shaping stock; assembling complete wooden articles or subassemblies; marking, binding, sawing, carving, and sanding wood products; and repairing wooden articles. Also emphasized are various hand and power tools and their uses.

17.36 01 00 00

Millwork and Cabinet Making—Specialized class and practical work experiences concerned with mass production of products such as window frames, moldings, trim, and panels; and with making such products as furniture, store fixtures, kitchen cabinets, and office equipment. Instruction includes training in cutting, shaping, and assembling parts by means of handtools and woodworking machines; refinishing furniture; installation of hardware, e.g., hinges, catches, and drawer pulls; planning layouts; blueprint reading; drafting; and various kinds of woods.

17.36 99 00 00

Other Woodworking Occupations—Include here other organized subject matter and learning experiences emphasized in woodworking occupations which are not listed above. (Specify.)

17.99 00 00 00

OTHER TRADE AND INDUSTRIAL OCCUPATIONS

Include here other organized subject matter and learning experiences emphasized in trade and industrial occupations which are not listed or classifiable in one of the above major categories. (Specify.)

GENERAL ELEMENTARY EDUCATION AND GENERAL SECONDARY EDUCATION 18.00 00 00 00

The terms General Elementary Education and General Secondary Education, as classified in chapter 5 and defined in chapter 6 of this handbook, usually refer to instruction which takes place in a self-contained class. Learning experiences are concerned with the knowledges, skills, appreciations, attitudes, and behavioral characteristics considered to be needed by all pupils in terms of the broad educational outcomes which should be achieved by all pupils to the limits of their capacities during the elementary and secondary school years or grades.

The Ad Hoc Committee for General Elementary Education and General Secondary Education applied the following rationale to the selection of items for placement in the General Elementary Education and General Secondary Education area: (1) the items were determined by consensus of the committee to be appropriate in terms of types of instructional organization; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various types of instructional organization classified were identifiable by titles which the committee considered to be most commonly used in current practice.

The items of information in chapters 3 and 4 are supportive to general elementary education and general secondary education instructional programs. For examples, see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

Included under the heading of General Elementary Education and General Secondary Education are items of information which identify selected types of instructional organizations for carrying on

instruction.

18.01 00 00 00 GENERAL ELEMENTARY YEARS OR GRADES

Usually includes education in the prekindergarten, kindergarten, and years or grades 1 through 6, 7, or 8. In practice, instruction usually takes place in a selfcontained class.

18.01 01 00 00

Early Elementary Years or Grades; Early Childhood Education—Includes instruction at the preprimary and primary levels. In practice, instruction usually takes place in a self-contained class.

18.01 01 01 00

PREPRIMARY LEVEL—Includes education during the year or years preceding the first grade. A prekindergarten or kindergarten class may be organized as a grade of an elementary school which includes the primary level, or it may be a part of a separate school. In some school systems such a group is called junior primary.

 $18.01\ 01\ 02\ 00$

PRIMARY LEVEL (INCLUDING GRADES 1, 2, AND 3 OR EQUIVALENT)—Includes education during the years or grades preceding the intermediate elementary grades, usually years or grades 1, 2, and 3 or the equivalent.

18.01 01 99 00

OTHER EARLY ELEMENTARY ORGANIZATIONS—Include here any arrangement of early elementary years or grades not classified above. (Specify.)

18.01 02 00 00

Intermediate Elementary Level (including years or grades 4, 5, and 6 or equivalent)—Usually includes education in the years or grades 4, 5, and 6 or the equivalent. In practice, instruction frequently takes place in a self-contained class.

18.01 03 00 00

Upper Elementary Level (including years or grades 7 and 8 or equivalent)—Usually includes education in the years or grades 7 and 8 or the equivalent.

18.01 99 00 00

Other Plan for General Elementary Years or Grades—Include here any arrangement of elementary grades or years not classified above. (Specify.)

18.02 00 00 00

MIDDLE SCHOOL LEVEL

A separately organized and administered school usually beginning with grades 5 or 6 or its equivalent and including at least 3

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18 GENERAL ELEMENTARY EDUCATION AND GENERAL SECONDARY EDUCA-TION—Continued

grades or years. Most middle schools presume, in ultimate plan if not in present reality, a four-year high school for the grades or years which follow, as in a 4-4-4 plan or a 5-3-4 plan.

18.03 00 00 00 GENERAL SECONDARY YEARS OR GRADES

Any span of years or grades beginning with the next year or grade following the elementary school and usually ending with or below year or grade 12, including the junior high school and other types of high school.

18.03 01 00 00 Junior High School Level—A separately organized and administered secondary school intermediate between the elementary and senior high school, usually including years or grades 7, 8, and 9 (in a 6-3-3 plan) or years or grades 7 and 8 (in a 6-2-4 plan).

18.03 02 00 00 Senior High School Level—A secondary school offering the final years or grades of high school work necessary for graduation and invariably preceded by a junior high school.

11.03 99 00 00 Other Secondary School Level—Include here any arrangement of secondary school years or grades not classified above. (Specify.)

DIFFERENTIALIZED CURRICULUM FOR HANDICAPPED PUPILS

19.00 00 00 00

The differentialized curriculum for handicapped pupils reflects an increasing awareness today of the individual needs of children. Many children with various types of handicaps cannot benefit from basic subject matter without special education. Handicapped children present learning difficulties, sensory and motor impairments, which require careful study for successful adaptation of instruction. Teachers of exceptional children integrate professional information from psychology, education, and medicine for instructional and therapeutic services. Consequently, special education as applied to each type of handicapped child has developed some distinctive techniques and materials which distinguish it from regular classroom instruction.

All handicapped children should have appropriate educational opportunities. As the school shares the responsibility with other social institutions for educating all children, it may make a unique contribution in discovering handicaps and providing the needed services for supporting the type of instruction which will enable pupils to fulfill their maximum potential. The majority of pupils with mild or uncomplicated handicaps can be served best within normal classes for instruction. Those pupils whose handicaps are of such nature and degree as to interfere with intellectual development and learning under regular class methods will require differentialized curriculum for some part of, and, frequently, for all of their education.

The Ad Hoc Committee for Differentialized Curriculum for Handicapped Pupils applied the following rationale to the selection of the items for placement in the area: (1) the items were determined by consensus of the committee to be appropriate to the area in terms of selected techniques, materials, and services essential to meeting the needs of pupils having varied handicaps; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various items classified under Differentialized Curriculum for Handicapped Pupils were identifiable by titles which the ad hoc committee considered to be currently in use and accepted in practice.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples, see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78; the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96; and the items classified in the X 09 00. Series—Pupils served by Program of Studies on pages 80–83, e.g., mentally retarded, blind, hard of hearing, speech impaired, crippled. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure 2 on page 13.

19.01 00 00 00 COMMUNICATION SKILLS

Activities concerned with learning and using oral, written, and visual language for interrelating with others in the environment.

19.01 01 00 00 Language Stimulation—An organized activity designed for assisting pupils learning to respond to a wide range of stimuli through ordinary channels of communication. Provision is made for the pupil to learn language in a developmental way, depending upon the type of stimuli or conditioning he receives.

19.01 02 00 00 Language Development—Activities designed to provide for a continuous, sequential system of learning the spoken and written language for communicative purposes.

19.01 03 00 00 Language Correction—Learning activities designed to change faulty language patterns which have already been formed. This involves a need for change in the existing language behavior as opposed to language development.

19.01 04 00 00 Speech Stimulation—Learning activities which involve the conditioning of speech and language learning by others in the environment. Maximum stimulation provides a direct aid to the speech development process.

19.01 05 00 00 Speech Development—The speech and language learning process which usually proceeds from unrelated sounds through several stages until the spoken words have a mutual meaning to the speaker and to the people in the learning environment. Some developmental teaching is done in this same manner.

19.01 06 00 00 Speech Correction—The remedial process of helping a person overcome his speech deviation. This involves a methodical process of teaching speech and integrating the changed speech pattern into the person's communicative skills.

19.02 01 00 00 Self - concept Development-Learning DIFFERENTIALIZED CURRICULUM FOR situations designed to enhance the pupil's **HANDICAPPED PUPILS—Continued** perception of himself and his environment. Required in these situations is a high degree of sensitivity to the interaction between the pupil's feelings of self and/or identity and his integration of these factors with the Special Communication Methods-Spe-19.01 07 00 00 cial methods, other than speech and written language, used by handicapped persons for communicating with others in their environment. These methods are also used as environment to which he is exposed. Adaptations of curriculum are oriented to astools in teaching language to the handisisting the child in realistically appraising his educational and behavioral status. A capped. 19.01 07 01 00 BRAILLE READING AND WRITING-A planned developmental program may be necessary to expose the pupil to learning experiences and tasks which afford him positive concepts of self. system designed to teach blind persons to read and write through the use of embossed characters formed by dots. STIMULUS MAGNIFICATION (VISION)-A 19.01 07 02 00 Self - concept Reeducation - Learning 19.02 02 00 00 type of mechanical magnification used to situations designed to assist handicapped pupils in developing and nurturing feelings of competency. In many situations this may be accomplished by way of the school tasks; increase a visual stimulus in order to make it possible for an individual with impaired sight to deal more extensively with his environment. in other situations, longer periods of orien-19.01 07 03 00 STIMULUS MAGNIFICATION (HEARING)tation or reorientation to school situations A type of mechanical amplification used to may be necessary. increase the auditory stimulus in order to Social—Learning situations designed to assist the pupil in maximum interaction with 19.02 03 00 00 make it possible for an individual with impaired hearing to deal more extensively others and in responding to the social de-mands of the environment. with sounds of his environment. Other Interpersonal and Behaviorial Coping Skills—Include here other orga-COMMUNICATION—A visual 19.02 99 00 00 19.01 07 04 00 means of communication used by persons having severely impaired hearing. Its nized subject matter and learning experimost generally accepted forms are finger spelling and the sign language. It is also used by educators in many schools as a means of instruction. The system is orthographic in nature in that distinct hand positions are identified with the 26 letters of the English alphabet. This contents ences emphasized in interpersonal and behavioral skills not listed above in this category. (Specify.) MOTORIC SKILLS 19.03 00 00 00 Instruction specifically designed to develop adequate motoric function which is of the English alphabet. This system as an aid to teaching is more widely accepted because it follows normal patterns of straight language. impaired by restrictions in physical move-ment caused by crippling conditions, pro-longed illness, visual defects, lack of auditory cues, serious cognitive defects, or be-19.01 07 05 00 ELECTRONIC REPRODUCTION—The use of havioral disorders often resulting in limited tape or disc recordings to provide the auditorily or visually impaired individual sensory experience upon which school learning is based. with material to increase his general vo-19.03 01 00 00 Dexterity Skills - Learning activities cabulary and to provide supplemental which involve practice, through use of se-lected materials, in reaching, lifting, holdacademic information. 19.01 07 06 00 Typing for Communication—A device ing, and moving objects on various developdesigned for use in connection with teaching language to pupils who are blind, partially sighted, brain injured, or mental levels in a graded sequence of activi-ties to develop muscle control and coordination. GROSS MOTOR SKILLS—Learning experiences designed to assist the pupil in working toward relatively independent physical movement, e.g., the use of wall rails for the crippled and guards on projections for the visually impaired, poorly balanced, or seizure prone; and practice in crawling, walking with physically handicapped. With physically handicapped persons, legibility is often difficult to obtain and typing provides 19.03 01 01 00 both clarity and speed. SPEECH READING (LIP READING)—A skill taught to hard of hearing and deaf persons. It involves learning to understand the lip and facial movements of individuals who are speaking by picking up cues to what is being said. 19.01 07 07 00 and practice in crawling, walking with support, and dancing (no matter how clumsy) for the severely motorically retarded. Included is instruction in game and sports rules for the hearing impaired, blind, crippled, and retarded, and correction of faulty gait patterns and elimination of unnecessary OTHER SPECIAL COMMUNICATION METH-19.01 07 99 00 ops-Include here other organized subject matter and learning experiences emphasized in special communication methods which are not listed above in and interfering motions as well as structhis subcategory. (Specify.) turing to promote rhythm and efficiency. Other Communication Skills-Include here other organized subject matter and Substitution for normal bodily character-19.01 99 00 00 istics that are absent due to a severe sensory loss (i.e., eye control for the blind, and quiet behavior for the deaf learning experiences emphasized in com-munication skills which are not listed or classifiable above in this category. (Specify.) during auditory activities) are also emphasized. 19.02 00 00 00 INTERPERSONAL AND BEHAVIORAL 19.03 01 02 00 FINE MOTOR SKILLS—Learning experi-COPING SKILLS ences designed to provide opportunity for pupils to use hands and fingers, hooks or

Curriculum approaches utilized to empha-

size personal and social skills.

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artificial hands, in a variety of motivating

DIFFERENTIALIZED CURRICULUM FOR **HANDICAPPED PUPILS—Continued**

activities including instruction to increase effectiveness by developing recognition of the need for guided practice and acceptance of an extended stage of awkwardness and/or retarded social use of the hands at given chronological ages. Emphasis is on materials designed for manipulation by pupils without visual experiences; enabling fantasy play for sensorily impaired and experientially deprived pupils; and a variety of creative art experiences for deaf, crippled, and mentally retarded pupils.

19.03 02 00 00 Physical Management—Learning experiences and instruction designed to assist pupils in developing physical skills for personal care and social functioning, whether performed independently in a usual or modified situation or with the assistance of another person.

19.03 02 01 00

Self-help Skills-Experiences and instruction organized to promote dressing, feeding, grooming and toileting skills for pupils who have limited or poorly controlled physical movement, or who do not have the usual visual cues, selfdiscipline, or mental maturity. The development of a workable self-concept is emphasized.

19.03 02 02 00

Use of Devices and Equipment (ordi-NARY AND SPECIAL)—Instruction and practice concerning movements such as opening doors; turning dials efficiently and at appropriate times; propelling a wheel chair to standard chair or toilet seat; using crutches on various surfaces; locking and unlocking braces; mounting curbs and stairs; and riding a bicycle though blind. Also included are the care of hearing aids and the uses of prosthetic devices, talking books, Braille writers, and optic aids. Emphasized with predetermined structure is learning which is appropriate, functional, and sensible in the use of toys and school materials as well as in participation in special art and music instruction. The selection of materials with built-in skills to be learned is an important consideration.

19.03 02 03 00

Personal Safety-Learning situations which are provided when either the external environment or activity is to be modified to circumvent hazards and assure safety for self and others. Also emphasized are (1) the development of awareness of cues from intact senses to avert danger of collision, fire, health hazards, and personal attacks; (2) learning activities which help the pupil to perceive the physical situation of an anticipated destination and determine a means of communication and mobility to prevent potential injury or loss; and (3) the recognition of symptoms of fatigue, seizures, infections, reaction to drugs, insulin reaction or diabetic coma, hemorrhages, excessive fear or excitability, and limits of functional hearing or vision.

19.03 03 00 00

Mobility Training—The process of teaching orientation in space, the uses of body parts in movement, and travel skills to pupils having problems such as visual impairment, orthopedic conditions, mental retar-

dation, emotional disturbances, and neurological impairments.

19.03 03 01 00

ORIENTATION—Learning situations designed to teach a pupil to place his own body in relation to permanent and temporarily placed objects; judge distances and appreciate that the location of an object is independent of the path taken to reach it; distinguish between movement of self and of an external object; develop positional memory, and directional, temporal, and quantitative relationships; and unify information received from various senses.

19.03 03 02 00

TRAVEL—Planned opportunities for pupils to apply mobility skills in school and community with use of intact senses. Gradual use of public transportation is emphasized for practice in reaching predetermined destinations, mounting steps, spending money, transferring from one vehicle to another, and behavior in a vehicle—particularly for the visually impaired, mentally retarded, crippled, and emotionally disturbed. The application of directional and spatial signals, the importance of detailed preparation prior to traveling to new localities, and the skills or procedures to be utilized in emergencies.

19.03 99 00 00

Other Motoric Skills—Include here other organized subject matter and learning experiences emphasized in motoric skills not listed above in this category. (Specify.)

19.04 00 00 00

PERCEPTUAL SKILLS

Learning experiences designed to relieve or correct visual, auditory, or tactual and kinesthetic perceptual problems and enable handicapped pupils to integrate multiplesensory impressions.

19.04 01 00 00

Auditory Training: Stimulation—Activities designed to motivate pupils to make maximum use of hearing for learning, esthetic enjoyment and interpersonal com-

19.04 02 00 00

Auditory Training: Development-Intensive and sequential learning activities planned and organized to help pupils who have serious sensory deficits develop maximum skills in hearing.

19.04 03 00 00

Auditory Training: Correction—Systematic intervention designed to help pupils alter auditory misperceptions and improve auditory discrimination and listening skill.

19.04 04 00 00

Tactile and Kinesthetic Stimulation-Planned activities which encourage pupils to make maximum use of tactile and kinesthetic experiences in general educational situations as well as in specific educational procedures such as reading Braille.

19.04 05 00 00

Tactile and Kinesthetic Development-Intensive and sequential activities which help pupils who have serious neuromuscular impairments progress toward the use of tactile and kinesthetic sensations for learning, including the development of an understanding of these sensory experiences as well as ability to relate them to visual and auditory sensations.

19.04 06 00 00

Tactile and Kinesthetic Correction-Systematic training or reeducation to enable pupils to attach correct and meaningful significance to skin and muscle sensations.

19.04 07 00 00

Olfactory Stimulation-Planned activities which encourage blind pupils to make maximum use of Olfaction in learning situa-



19 DIFFERENTIALIZED CURRICULUM FOR HANDICAPPED PUPILS—Continued

tions in order to increase the pupil's knowledge and understanding of his environment.

Olfactory Development—Intensive sequential activities designed to help the blind pupil progress toward the development of an understanding of Olfaction as well as relat-

ing it to other senses.

19.04 08 00 00

19.04 09 00 00 Visual Stimulation—Activities which motivate pupils to make maximum use of vision for learning, esthetic enjoyment, and nonverbal communication.

19.04 10 00 00 Visual Development—Intensive and sequential learning activities designed to help pupils who have serious visual loss or perceptual disorders to maximize the use of their residual vision or develop appropriate responses to visual stimuli.

19.04 11 00 00 Visual Correction—Systematic intervention which provides reeducation for pupils who have formed inaccurate impressions as a result of visual limitations.

19.04 12 00 00 Personal Spatial Relationships—Intensive and sequential learning activities which are designed to enable handicapped pupils to observe and understand the boundaries of their own bodies and to develop appropriate relationships to objects and persons in the environment.

19.04 99 00 00 Other Perceptual Skills—Include here other organized subject matter and learning experiences emphasized in perceptual skills not listed above in this category. (Specify.)

19.05 00 00 00 VOCATIONAL AND AVOCATIONAL SKILLS DEVELOPMENT

Programs of instruction comprised of organized subject matter and related experiences designed to develop in the handicapped pupil the knowledge, skills, attitudes, and appreciations that relate to the world of work and the profitable use of leisure time.

19.05 01 00 00 Vocational Information—Planned classroom activities concerned with the place of
work in our culture, the various resources for
obtaining employment, the physical, social,
and emotional skills required for retaining
a job, overview of employment skill requisites, resources for improving one's work
potential, and other preemployment information. Also included are planned observations of the world of work outside the
school setting.

19.05 02 00 00

Prevocational Work Experience—Planned exposure to work on a paid or nonpaid basis for handicapped pupils under the supervision and control of school authorities.

These experiences may be within the school environs, sheltered work settings, or in the competitive job market. School academic credit may or may not be given for these school-organized and supervised experiences.

19.05 03 00 00 Specialized Vocational Preparation—Experiences and subject matter organized to develop skills that will result directly in employment upon termination of the school enrollment. Examples of this are course work in small appliance repair, IBM keypunch operation, stenography, or offset printing skills. (Specify vocations.)

19.05 04 00 00 Avocational Information—The study of nonvocational activities and related prob-

lems. Frequently emphasized is information relating to constructive use of nonwork time including the study of recreational resources and facilities, values of outdoor living, table games, methods and procedures in home entertainment of guests, the place of church activities in family living, and the use of tour guides and other resource information relating to leisuretime utilization.

19.05 05 00 00 Avocational Experience—Experiences designed to convey specific recreational and leisuretime skills to the handicapped pupil or pupils in an applied manner. Included are such activities as dancing instruction, musical skill acquisition, art lessons, dramatic instruction, and therapeutic recre-

matic instruction, and therapeutic recreation. These experiences, organized and supervised by the school, may or may not include school academic credit.

19.05 99 00 00 Other

Other Vocational and Avocational Skills Development—Include here other organized experiences, activities, and subject matter emphasized to enrich the life of the handicapped pupil or pupils that relate to present or future vocational and avocational competence, appreciation, or attitude development, which are not listed above in this category. (Specify.)

19.99 00 00 00 OTHER DIFFERENTIALIZED CURRICULUM FOR HANDICAPPED PUPILS

Include here other organized subject matter and learning experiences emphasized in curriculum exceptions for handicapped pupils which are not listed or classifiable in one of the above major categories. (Specify.)

COCURRICULAR ACTIVITIES 20.00 00 00 00

Cocurricular activities (experiences) are comprised of the group of school-sponsored activities, under the guidance or supervision of qualified adults, designed to provide opportunities for pupils to participate in such experiences on an individual basis, in small groups, or in large groups—at school events, public events, or a combination of these—for purposes such as motivation, enjoyment, and improvement of skills. In practice, participation usually is not required and credit usually is not given. When participation is required or credit is given the activity generally is considered to be a course.

Under this heading are the items of information which identify the various cocurricular activities. Each item of information is treated in one of the following ways: by cross-reference to the subject-matter area in which it has its origin; or, by description; or, by identification with an asterisk (*) referring to descriptive literature from the office of the organization sponsoring the activity. The classified items are *only* illustrative of the wide range of activities; and, the asterisk (*) is not necessarily identified with all of the listed activities to which it may appropriately apply. The cocurricular activities have been classified into five major categories: academic, athletic, music, school and/or public service, and social.

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20 COCURRICULAR ACTIVITIES— Continued

20.01 00 00 00 ACADEMIC COCURRICULAR ACTIV-**ITIES**

A combination of subject matter and experiences, usually not provided in a regular class, designed for pupils who wish to pursue satisfying individual/group interests and study in specific aspects of the subject matter provided in the regular class. Frequently emphasized are opportunities for pupils to enhance their personal under-standing, initiative, knowledge and skills important to the selected interest, techniques of systematic planning and thinking, desirable citizenship, and cooperativeness which will enrich their regular classwork and personal lives.

Art Club—(For a description of various aspects of art see 02.00 00 00 00 ART.) 20.01 01 00 00

Biological Sciences (including General Biology).)

*Boys Nation—(American Legion, Indianapolis, Indiana) 20.01 03 00 00

20.01 04 00 00 Debate Club—(For a description of subject matter see 05.00 00 00 00 ENGLISH LANGUAGE ARTS, 05.05 02 02 00 Argumentation and Debate.)

20.01 05 00 00 *Distributive Education Clubs of America—(Distributive Education Clubs of America, Incorporated, Washington, D.C.)

20.01 06 00 00 Dramatics Club—(For a description of subject matter see 05.00 00 00 00 ENGLISH LANGUAGE ARTS, 05.06 00 00 00 Dramatic Arts.)

20.01 07 00 00 Family Living Club—(For a description of subject matter see 08.00 00 00 00 HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION, 08.01 05 00 00 Family Life Education; 09.00 00 00 00 HOME ECONOMICS, 09.01 06 00 00 Family Relations; and 15.00 00 00 00 SOCIAL SCIENCES/SOCIAL STUDIES, 15 13 04 02 00 Family 15.13 04 02 00 Family.)

*4-H Club-(National 4-H Club Foun-20.01 08 00 00 dation of America, Incorporated, Washing, D.C.)

20.01 09 00 00 Foregin Language Club—(May involve various languages—classical and/or modern) (For a description of subject matter of various foreign languages see 06.00 00 00 FOREIGN LANGUAGES.)

20.01 10 00 00 *Future Business Leaders of America-(National Business Education Association (NEA), Washington, D.C.)

*Future Farmers of America—(See 01.00 20.01 11 00 00 00 00 00 Agriculture. Future Farmers of America activities are uniquely (by Act of Congress, P.L. 740) an integral part of all instructional programs in agriculture. Time is frequently provided in regular classes to familiarize pupils with the objectives, functions, and activities of F.F.A. Additional items of information from chapters 3 and 4 of this handbook may be related to FFA to further describe the content and learning activities, e.g., category X 22 00., page 88; category X 23 00., pages 89-90; and category X 43 00., pages 101-102.)

(U.S. Office of Education, Washington, D.C.)

*Future Homemakers of America— (U.S. Office of Education, Washington, 20.01 12 00 00 D.C.)

20.01 13 00 00 *Future Teachers of America (NEA)-(National Education Association, Washington, D.C.)

20.01 14 00 00 *Girls Nation—(American Legion Auxiliary, Indianapolis, Indiana)

20.01 15 00 00 *Industrial Arts Student Club-(National Education Association, Washington, D.C.)

International Relations Club—(For a description of subject matter see 15.00 00 00 00 SOCIAL SCIENCES/SOCIAL STUDIES, 15.11 04 00 00 International 20.01 16 00 00 Relations.)

20.01 17 00 00 Journalism Club (including school newspaper and annual)—(For a description of subject matter see 05.00 00 00 00 ENGLISH LANGUAGE ARTS, 05.04 03 00 00 Journalism.)

20.01 18 00 00 *Junior Achievement, Incorporated-(Junior Achievement, Incorporated, New York, N.Y.)

Literary Club—(For a description of subject matter see 05.00 00 00 00 ENGLISH LANGUAGE ARTS, 05.03 00 00 00 Liter-20.01 19 00 00 ature.)

Mathematics Club—(May involve various aspects of mathematics) (For a description of selected aspects of mathematics see 11.00 00 00 00 MATHEMATICS.) 20.01 20 00 00

Music Club—(May involve various aspects of music) (For a description of subject matter see 12.00 00 00 00 MUSIC.) 20.01 21 00 00

*National Honor Society (NEA)—(National Education Association, Washington, 20.01 22 00 00

*National Junior Honor Society (NEA) —(National Education Association, Wash-20.01 23 00 00 ington, D.C.)

*National Thespian Society—(National Thespian Society, College Hill Station, 20.01 24 00 00 Cincinnati, Ohio)

20.01 25 00 00 *Office Education Association—(Office Education Association, P.O. Box 4287, Madison, Wisconsin)

Madison, Wisconsin)

Photography Club—(For a description of the subject matter see 02.00 00 00 00 00 ART, 02.02 07 00 00 Photography and Related Media; 10.00 00 00 00 INDUSTRIAL ARTS, 10.07 02 00 00 Photography; 13.00 00 00 00 NATURAL SCIENCES, 13.03 00 00 00 Physical Sciences (including General Physical Science); and 17.00 00 00 00 TRADE AND INDUSTRIAL OCCUPATIONS, 17.09 00 00 00 Commercial Photography Occupations.) 20.01 26 00 00 Photography Occupations.)

20.01 27 00 00 *Quill and Scroll—(Quill and Scroll Society, University of Iowa, Iowa City, Iowa)

20.01 28 00 00 Science Club-(May involve various aspects of the natural sciences) (For a description of subject matter see 13.00 00 00 00 NATURAL SCIENCES.)

*Science Fair, International—(Science Service—Service Clubs of America, Wash-20.01 29 00 00 ington, D.C.)

20.01 30 00 00 Social Studies Club-(May involve various aspects of social sciences/social studies) (For a description of subject matter see 15.00 00 00 00 SOCIAL SCIENCES/ SOCIAL STUDIES.)



| 20 COCURRICULAR ACTIVITIES— Continued | 20.02 13 00 00 | Gymnastics—(See the category 08.03 08 00 00 Stunts, Tumbling, and Gymnastics.) |
|---|----------------|---|
| 20.01 31 00 00 Speech Club—(For a description of subject matter see 05.00 00 00 00 ENGLISH LANGUAGE ARTS, 05.05 00 00 00 Speech.) | 20.02 14 00 00 | Riflery—Activity involving the use of se- lected firearms for shooting at specified target from various positions, e.g., prone, sitting, kneeling, and standing. Riflery may be competitive or noncompetitive, and may |
| 20.01 32 00 00 *Student Nurses Association—(National Student Nurses Association, New York, N.Y.) | 20.02 15 00 00 | be organized on an individual or team basis. Snowskiing—(See the category 08.03 07 |
| 20.01 33 00 00 *Vocational Industrial Clubs of America—(Vocational Industrial Clubs of Amer- | 20.02 16 00 00 | 00 00 Outdoor Recreational Activities.) Soccer—(See the category 08.03 09 00 00 Team Sports.) |
| ica, Falls Church, Virginia) 20.01 34 00 00 *Voice of Democracy—(Veterans of For- | 20.02 17 00 00 | Softball—(See the category 08.03 09 00 00 Team Sports.) |
| eign Wars, Kansas City, Missouri) 20.01 35 00 00 Young Farmer Association—(Sponsored | 20.02 18 00 00 | Tennis—(See the category 08.03 06 00 00 Individual and Dual Sports.) |
| by various State departments of education) 20.01 99 00 00 Other Academic Cocurricular Activities | 20.02 19 00 00 | Track and Field—(See the category 08.03 06 00 00 Individual and Dual Sports.) |
| —Include here other academic cocurricular activities which are emphasized and are not listed above. (Specify.) | 20.02 20 00 00 | Twirlers (Baton)—This activity is not described here because of the common understanding associated with it. |
| 20.02 00 00 00 ATHLETIC AND SPORT COCURRICU- LAR ACTIVITIES | 20.02 21 00 00 | Volleyball—(See the category 08.03 09 00 00 Team Sports.) |
| Subject matter and/or activities, usually not provided in regular classes, designed for pupils who wish to pursue satisfying | 20.02 22 00 00 | Wrestling—(See the category 08.03 06 00 00 Individual and Dual Sports.) |
| individual/group interests growing out of various aspects of physical education. Frequently emphasized are opportunities for pupils to develop muscles, motor skills, and | 20.02 99 00 00 | Other Athletic and Sport Cocurricular Activities—Include here other athletic and sport cocurricular activities which are emphasized and are not listed above. (Specify.) |
| physical and mental fitness in competitive situations; knowledge, attitudes, and judgment essential to individual and group health and safety; enjoyment; and desirable citizenship. In practice, these activities usually are planned for enriching the regular classes and the lives of the pupils. The code number and title of the subjectmatter area 08.00 00 00 00 HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION are not used in the cross-references in the athletic and sport cocurricular | 20.03 00 00 00 | MUSIC COCURRICULAR ACTIVITIES Subject matter and/or activities, usually not provided in regular classes, designed for pupils who wish to pursue satisfying individual/group interests growing out of various aspects of music. Most music cocurricular activities are planned to provide opportunities for pupils to develop appreciations, enjoyment, knowledge, and skills in selected areas of music—in group situations or individually. In practice, these activities usually are organized for enriching the regular classwork and the lives of the |
| activities. Cross-references to items in the above subject-matter area cite only the code number and title of the appropriate item or category in which the item is classified. 20.02 01 00 00 Aquatics—(See the category 08.03 02 00 00 | 20.03 01 00 00 | combo—An abbreviation of "combina- tion" denoting, usually, an instrumental group of four to eight players. A combo may improvise on standard tunes, as in Dixie- land style; play "head arrangements" (i.e., |
| Aquatics.) 20.02 02 00 00 Archery—(See the category 08.03 06 00 00 Individual and Dual Sports.) | | those worked out and memorized in advance); or play from written arrangements. |
| 20.02 03 00 00 Badminton—(See the category 08.03 06 00 00 Individual and Dual Sports.) | 20.03 02 00 00 | Concert Band — (See 12.00 '00 00 00 MUSIC, 12.05 01 00 00 Band.) |
| 20.02 04 00 00 Baseball—(See the category 08.03 09 00 00 Team Sports.) | 20.03 03 00 00 | Dance Band—An instrumental group, usually comprising nine to seventeen pieces, |
| 20.02 05 00 00 Basketball—(See the category 08.03 09 00 00 Team Sports.) | | including reeds (saxaphones and clarinets), brass (trumpets and trombones), and per- |
| 20.02 06 00 00 Bowling—(See the category 08.03 06 00 00 Individual and Dual Sports.) | | cussion (e.g., drums, bongoes, piano, and vibraharp). Occasionally, other instruments such as flute or horn are added. |
| 20.02 07 00 00 Cheerleading—This activity is not described here because of the common understanding associated with it. | 20.03 04 00 00 | The dance band plays not only for dances, but also for other entertainment activities. Drum and Bugle Corps—A military-type |
| 20.02 08 00 00 Cross Country—(See the category 08.03 09 00 00 Team Sports.) | 20.00 04 00 00 | unit comprised of side drums, bass drums, other percussion instruments such as cym- |
| 20.02 09 00 00 Field Hockey—(See the category 08.03 09 00 00 Team Sports.) | | bals, and a variety of keyed bugles. Usually, the drum and bugle corps performs on the |
| 20.02 10 00 00 Football—(See the category 08.03 09 00 00 Team Sports.) | 20.03 05 00 00 | march, but may play from a fixed position. Marching Band—(See 12.00 00 00 00 00 MUSIC 12.05 01.00 00 Rand) |
| 20.02 11 00 00 Girls' Athletic Association—A voluntary association for girls designed to provide opportunities for them to participate in a variety of physical activities such as sports. 20.02 12 00 00 Golf—(See the category 08.03 06 00 00 | 20.03 06 00 00 | MUSIC, 12.05 01 00 00 Band.) Pep Band—A unit, smaller than the marching band, which performs at various athletic events. Usually, it features a variety of antics designed to keep the participants and spectators at the event in a high state |
| Individual and Dual Sports.) | | of excitement. |

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| | | | RF | RICULAR ACTIVITIES— ed | |
|-------|----|----|----|--|--|
| 20.03 | | | | Choir—(See 12.00 00 00 00 MUSIC, 12.04 | |
| 20.03 | 08 | 00 | 00 | 01 00 00 Choir, Chorus, and/or Glee Club.) Chorus—(See 12.00 00 00 00 MUSIC, 12.04 01 00 00 Choir, Chorus, and/or Glee | |
| 20.03 | 09 | 00 | 00 | Club.) Instrumental Ensemble—(See 12.00 00 00 00 MUSIC, 12.05 03 00 00 Small Instrumental Ensembles.) | |
| 20.03 | 10 | 00 | 00 | Wocal Ensemble—(See 12.00 00 00 00 MUSIC, 12.04 03 00 00 Small Vocal Ensembles.) | |
| 20.03 | 11 | 00 | 00 | Glee Club—(See 12.00 00 00 00 MUSIC, 12.04 01 00 00 Choir, Chorus, and/or Glee Club.) | |
| 20.03 | 12 | 00 | 00 | Music Production—The creation of musical performances—instrumental, vocal, or a combination of instrumental and vocal—having esthetic qualities. Musical productions frequently include performances as operettas, music festivals, band concerts, symphony concerts, and vocal concerts. Music productions usually are designed to | |
| | | | | provide opportunities for pupils to partici- pate voluntarily for personal enjoyment and/or improvement of vocal or instru- mental skills. | |
| 20.03 | 13 | 00 | 00 | Orchestra—(See 12.00 00 00 00 MUSIC, 12.05 02 00 00 Orchestra.) | |
| 20.03 | 99 | 00 | 00 | Other Music Cocurricular Activities— Include here other music cocurricular activi- ties which are emphasized and are not listed above. (Specify.) | |
| 20.04 | 00 | 00 | 00 | SCHOOL AND/OR PUBLIC SERVICE COCURRICULAR ACTIVITIES Activities organized for pupils who wish to pursue satisfying individual/group interests concerned with providing various types of assistance (service) to teachers, pupils, and others, including the community—individually, in small groups, or in large groups. Usually, these activities are designed to provide opportunities for pupils | |
| | | | | to: develop understanding and acceptance of responsibilities involved in serving others; develop desirable habits in citizenship and cooperation; gain knowledge and skills in selected interests; and enrich personal lives | |
| 20.04 | 01 | 00 | 00 | through the constructive use of time. Audiovisual Assistant—A service activity providing opportunities for pupils to develop and extend their interests, knowledge, and skills concerned with audiovisual materials and equipment. Audiovisual assistants aid teachers/pupils in or by: preparing | |
| | | | | various types of materials, e.g., splicing films, preparing transparencies, and making feltboard materials; procuring, setting up, operating, and returning and storing projection equipment; and cleaning and maintaining equipment and materials. | |
| 20.04 | 02 | 00 | 00 | Class Officer—A service activity providing opportunities for groups of pupils, e.g., a class or a homeroom, to learn and practice the principles of democratic processes involved in interactions of individuals within | |
| | | | | a group, among groups within a school, and with the school staff. Usually, class officers are elected by the | |

Usually, class officers are elected by the group to: preside over group-interest dis-cussions; represent the class in meetings and cooperation with other school groups and the school staff; and provide leadership compatible with school and school system

policies. Emphasized are parliamentary procedures, the roles of the minority and majority, techniques of group decisionmaking, fair play, and other related factors.

Film Projectionist—A service activity providing opportunities for pupils to develop and extend their interests, knowledge, and skills concerned with audionical 20.04 03 00 00 and skills concerned with audiovisual projection equipment. The film projectionist aids pupils/teachers by procuring, setting up, operating, and returning and storing various types of projectors.

Laboratory Assistant — Opportunities provided for pupils—knowledgeable in the course and related laboratory equipment, materials, and activities involved—to extend their interests, knowledge, and skills 20.04 04 00 00 by assisting other pupils (under the supervision of the teacher) in procuring, setting up, and using laboratory materials and equipment involved in their study.

Library Assistant—A service activity pro-20.04 05 00 00 viding opportunities for pupils to develop and extend their interests, knowledge, and skills (under supervision of the librarian) by performing many library tasks such as charging books to borrowers, slipping and shelving returned books, repairing books, and typing book cards, envelopes, and overdue notices.

*National Junior Red Cross—(American National Red Cross, The, Washington, 20.04 06 00 00

*National Student Traffic Safety Program—(National Commission on Safety Education (NEA), Washington, D.C.) 20.04 07 00 00 20.04 08 00 00

Office Assistant-A service activity designed for pupils to gain experience and develop and extend their interests, knowledge, and skills in office activities. Opportunities are provided for interested pupils to serve the staff, other pupils, and the community by assisting with routine duties in the principal's and other offices.

Poster and Display Club—(For a description of subject matter see 02.00 00 00 00 ART, the major category 02.02 00 00 00 Art Studio and 17.00 00 00 TRADE AND INDUSTRIAL OCCUPATIONS, 17.07 00 20.04 09 00 00 00 00 Commercial Art Occupations.)

School Newspaper Photographer—(For 20.04 10 00 00 a description of the subject matter see 02.00 00 00 00 ART, 02.02 07 00 00 Photography and Related Media; 10.00 00 00 00 IN-DUSTRIAL ARTS, 10.07 02 00 00 Photography; and 17.00 00 00 00 TRADE AND INDUSTRIAL OCCUPATIONS, 17.07 00 00 00 Commercial Photography Occupations 00 00 Commercial Photography Occupations.)

School Service Club—(Includes guides for visitors, and ushers) A service activity de-20.04 11 00 00 signed to provide pupils an opportunity to develop citizenship responsibilities by serving their school—as guides to visitors, ushering at school events, orienting new pupils entering the school, maintaining bulletin boards, and related activities.

20.04 12 00 00 *Student Council, National Association of-(National Association of Student Councils (NEA), Washington, D.C.)

*Student Patrol—(American Automobile Association and Affiliated Auto Clubs, 20.04 13 00 00 Washington, D.C.)

20.04 14 00 00 Student Union and/or Student Activity Center—Service activities designed to pro-vide opportunities for pupils to develop knowledge and skills in serving other pupils

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COCURRICULAR ACTIVITIES-Continued

who wish to use their nonclassroom time productively. Examples of these activities are the school newspaper, assisting in pupilpersonnel functions, and community re-

Other School and/or Public Service Cocurricular Activities—Include here other school and/or public service activities which are emphasized and are not listed above. (Specify.)

20.05 00 00 00

20.04 99 00 00

SOCIAL COCURRICULAR ACTIVI-

Activities organized for pupils who wish to pursue satisfying interests growing out of social experiences. These activities planned to develop social knowledge, skills, understanding, citizenship, and acceptance and constructive use of responsibilities in group situations. In practice, these experiences are designed to provide enrichment in the constructive use of personal talent and time.

20.05 01 00 00

*Boy Scouts of America—(Boy Scouts of America, National Council, New Brunswick, N.J.)

20.05 02 00 00

*Camp Fire Girls—(Camp Fire Girls, Incorporated, New York, N.Y.)

20.05 03 00 00

Creative Dance—(For a description of subject matter see 08.00 00 00 00 HEALTH and SAFETY in DAILY LIVING, PHYSand RECREA-ICAL EDUCATION, and RECREA-TION, the category 08.03 04 00 00 Dance, Rhythms, and Dramatic Activities.)

20.05 04 00 00

*(Cub Scouts (Boy Scouts of America)— Boy Scouts of America, National Council, New Brunswick, N.J.)

20.05 05 00 00

Folk Music Club—A club designed to provide opportunities for pupils to develop social skills and extend their interests and improve their understanding, knowledge, and skills in folk music. Frequently included are activities such as exploring various types of folk music; discussing and exchanging ideas about it; listening to recordings; individual and group vocal and/or instrumental performance; and studying various cultures.

20.05 06 00 00

Girls' Recreation Association-An association planned for girls to provide opportunities for them to develop social skills and to extend individual group interests and improve their understanding, knowledge, and skills through participation in various forms of recreation. Frequently included are activities such as outdoor recreation, arts and crafts, hobbies, and performing arts.

20.05 07 00 00

*Girl Scouts of the U.S.A.—(Girl Scouts of the U.S.A., New York, N.Y.)

20.05 08 00 00

*Hi-Y—(Young Men's Christian Associations of the U.S.A., National Council of, New York, N.Y.)

20.05 09 00 00

Hobby Club-A club designed to provide opportunities for pupils to develop social skills and to extend their interests and improve their understanding, knowledge, and skills in various hobbies. Frequently in-cluded are activities such as exploring vari-ous hobbies; discussing and exchanging information and ideas; and developing and displaying various hobby items.

*Junior Hi-Y—(Young Men's Christian Associations of the U.S.A., National Coun-20.05 10 00 00 cil of, New York, N.Y.)

20.05 11 00 00

*Junior Tri-Hi-Y—(Young Men's Christian Associations of the U.S.A., National Council of, New York, N.Y.)

20.05 12 00 00

Stamp Club-A club designed to provide opportunities for pupils to develop social skills and to extend their interests and imskills and to extend their interests and improve their understanding, knowledge, and skills in the collection of postage stamps (philately). Frequently included are such activities as studying the science of philately; discussing and exchanging information and ideas; and developing and displaying collections of postage stamps.

20.05 13 00 00

*Tri-Hi-Y—(Young Men's Christian Associations of the U.S.A., National Council of, New York, N.Y.)

20.05 14 00 00

*Y,M.C.A.—(Young Men's Christian Associations of the U.S.A., National Council of, New York, N.Y.)

20.05 15 00 00

*Y-Teens—(Young Women's Christian Associations of the U.S.A., National Board of, New York, N.Y.)

20.05 16 00 00

*Y.W.C.A.—(Young Women's Christian Associations of the U.S.A., National Board of, New York, N.Y.)

20.05 99 00 00

Other Social Cocurricular Activities-Include here other social cocurricular activities emphasized which are not listed above. (Specify.)

SAFETY AND DRIVER EDUCATION 21.00 00 00 00

The subject matter and related activities in safety and driver education are organized for carrying on learning experiences concerned with developing in the learner the ability to respond appropriately and efficiently in the operation of a motor vehicle, and as a pedestrian in traffic. More specifically, instruc-tion emphasizes attainment of the following ob-

(1) appropriate knowledge and efficiency for living

in the total traffic environment;

(2) fundamental driving skills and correct skill habits:

(3) desirable behavior pattern in traffic;

(4) an understanding of driver and pedestrian limitations, obligations, and responsibilities legally

and socially; and

(5) knowledge about the motor vehicle and understanding of how society may achieve maximum efficiency in operating its motor vehicle transportation system.

Subject matter and activities in safety education are primarily concerned with enhancing personal characteristics and values involved in preventing accidents and saving lives. Instruction emphasizes, in addition to other factors, the following: (1) the development of appropriate attitudes towards safety, (2) knowledge concerning a wide range of safety factors, (3) habits and skills involved in safeguarding oneself and others, and (4) effective citizenship.

The following rationale was applied to the selection of items for placement in the Safety and Driver Education subject-matter area: (1) the content items



21 SAFETY AND DRIVER EDUCATION— Continued

were determined to be appropriate to the area; (2) subject-matter items could be defined in brief form using only salient descriptive elements; and (3) the various items were identifiable by titles which were considered as being most commonly used.

Opportunities are frequently provided both during and outside regular classtime for pupils to develop interests, skills, and knowledge in selected aspects of safety and driver education as an integral part of the instructional program. As an example, the Student Patrol provides additional opportunities to pursue personal interests, apply various acquired skills in traffic safety, increase knowledge in selected aspects of safety education, and develop leadership qualities through safety patrol activities. Such organized activities, under appropriate supervision, are referred to as cocurricular activities. A variety of activities is identified under 20.00 00 00 Cocurricular Activities in chapter 5 beginning on page 146; and they are described more fully in this chapter beginning on page 242. As an illustration, the Student Patrol is identified for reporting purposes under Cocurricular Activities as Item 20.04 13 00 00.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples see the items classified in the X 07 00. Series—Evaluation and Curriculum Improvement on pages 71–78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90–96. Graphic illustrations of these relationships are shown in table 7 on page 11 and figure 2 on page 13.

Included under this heading are the items of information which identify various aspects of subject matter and learning activities in driver and safety education.

21.01 00 0. 00 DRIVER EDUCATION

Learning experiences provided by the school for the purposes of helping pupils to become good traffic citizens and to operate motor vehicles safely and efficiently. The typical high school course consists of both classroom instruction and practice driving which provide learning experiences in a dual-control car.

21.01 01 00 00 Alcohol, Drugs, other Harmful Substances and Driving—Learning experiences and activities designed to help pupils understand the effects of harmful substances as they relate to the driving task.

21.01 02 00 00 Characteristics of Drivers—The study of the physical, mental, and emotional characteristics of the driver and their effects upon his driving.

21.01 03 00 00 Development of Judgment—Learning experiences designed for classroom and laboratory instruction dealing with the relationship of vision and perception, knowledge, physical laws and their application to formulating judgment, including the analysis of traffic situations and decisionmaking as they relate to drivers of other vehicles and to pedestrians.

21.01 04 00 00 Driving Skills (Behind-the-wheel Driving)—Laboratory experiences planned to help the pupil develop basic skills (and competencies) in starting and stopping, turning, executing special maneuvers, and driving under hazardous conditions involving expressways, parking, open-highway driving, and emergency situations.

21.01 05 00 00 Simulation Driving Experience—A combination of subject matter (including special films) and experiences involving the use of electromechanical devices for enhancing subsequent in-car instruction. Simulator instruction assists in developing basic skills related to performance and helps to develop perceptual and judgmental proficiencies.

21.01 06 00 00 Engineering—A study of the functions and responsibilities of the automotive engineer, highway engineer, and traffic engineer.

21.01 07 00 00 Laws and Ordinances of Enforcement— A study of local and State laws and ordinances, the Uniform Vehicle Code, and Model Traffic Ordinances and their relationship to law enforcement.

21.01 08 00 00 Motor Vehicle, The—Learning experiences including laboratory activities concerned with the mechanics of the vehicle, including the powerplant, gauges and indicators, and safety and control devices. Also emphasized are the economics of vehicle ownership, trip planning, and the possibility of vocational opportunities.

21.01 09 00 00 Traffic Accidents—A study of the literature, socioeconomic factors, human elements, roads, and vehicles as they relate to the traffic accident problem.

21.01 10 00 00 Traffic Citzenship—Learning experiences and activities concerned with the driver's responsibility to other drivers and highway users, to himself, to the community, and to the support of public officials.

21.01 99 00 00 Other Driver Education—Include here other organized subject matter and experiences emphasized in driver education which are not listed above. (Specify.)

21.02 00 00 00 SAFETY EDUCATION

A combination of subject matter and experiences directed toward the conservation of human and material resources. The learning environment provided is such that pupils may acquire knowledge and behavioral patterns conducive to efficient and safe living.

21.02 01 00 00 Civil Defense—Planned learning activities involving the preparation of pupils to meet both man-made and natural disasters. Natural disasters may include tornadoes, floods, blizzards, and hurricanes. Man-made disasters may include fire explosions, large-scale air or water pollutants, transportation accidents, construction disasters, and air-bombing attacks.

21.02 02 00 00 Explosives—The study of various kinds of explosives, including fireworks, flammable liquids and gases, blasting caps, dynamite, rockets, and various types of ammunition.

Also emphasized are legal requirements and related safety factors. (Included as 08.02 01 00 00 Explosives under HEALTH AND SAFETY IN DAILY LIVING, PHYSI-CAL EDUCATION, AND RECREATION)

21.02 03 00 00 Law, Liability, and Responsibility—A study of the legal aspects of safety education including State and local statutes pertaining to the safe operation of schools, curriculum

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SAFETY AND DRIVER EDUCATION— Continued

requirements, responsibilities of State and local school administrators, liability suits and liability areas, legal terminology, legal defenses, insurance protection, and teacher and school liability.

Personal Responsibility in Unsupervised Activities—(For definition see 08.02 05 00 00 Personal Responsibility in Unsupervised Activities under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION,) 21.02 04 00 00

Safety in the Home—(For definition see 08.02 06 00 00 Safety in the Home under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, 21.02 05 00 00 AND RECREATION.)

School Safety—(For definition see 08.02 08 00 00 School Safety under HEALTH AND SAFETY IN DAILY LIVING, 21.02 06 00 00 PHYSICAL EDUCATION, AND REC-REATION.)

21.02 07 00 00 Traffic Safety-A study of the basic elements of the traffic problem, including the driver, the roadway, and the vehicle. The basic essentials for the safe and efficient operation of a motor vehicle are considered in the light of attitudes and habits to be developed, and the knowledge and skills to developed, and the knowledge and skills to be learned. (Included as 08.02 09 00 00 Traffic Safety under HEALTH AND SAFETY IN DAILY LIVING, PHYS-ICAL EDUCATION, AND RECREA-TION) The traffic safety program is also considered as it relates to:

BICYCLE, MOTOR BIKE, OTHER-Learning 21.02 07 01 00 activities and experiences concerned with safety factors in bicycling, including selecting a bicycle, keeping a bicycle in proper condition, practices of safe bicycle riding, and community cooperation for safe bicycling. The same learning activities and experiences are applicable to motorcycles, scooters, and motor-driven bicycles. (Included as 08.02 09 01 00 Bicycle, Motor Bike, other under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND REC-REATION)

21.02 07 02 00 Passenger-Learning activities and experiences concerned with safety factors when riding in a passenger car or taxi, a school bus, public conveyance, a train, a boat, and an airplane. (Included as 08.02 09 02 00 Passenger under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION)

21.02 07 03 00 PEDESTRIAN—Learning activities and experiences concerned with pedestrian practices in traffic, on rural roads and in cities, proper crossing procedures, and obeying traffic signs and signals. Included in instruction are situations where there are no sidewalks, wearing proper clothing, proper routes to and from school, and obeying student safety patrols. (Included as 08.02 09 03 00 Pedestrian under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION)

STUDENT PATROL-Learning activities 21.02 07 04 00 and experiences concerned with the organization, supervision, structure, and

functions of various school patrols includ-ing traffic, hall or school, school bus, playground, fire drill, and civil defense. (Included as 08.02 09 04 00 Student Patrol under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION)

21.02 07 99 00 OTHER TRAFFIC SAFETY-Include here other organized subject matter and ex-periences emphasized in traffic safety which are not listed above. (Specify.)

Vocational and Occupational Safety— (For definition see 08.02 10 00 00 Vocational 21.02 08 00 00 and Occupational Safety under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND REC-REATION.)

Other Safety Education—Include here other organized subject matter and experi-21.02 99 00 00 ences emphasized in safety education which are not listed above. (Specify.)

JUNIOR ROTC 22.00 00 00 00

Junior ROTC is comprised of a body of subject matter, or combinations of courses and practical experience, organized into programs of instruction to provide opportunities for pupils to prepare for and achieve career objectives in selected branches of the military service. In the instructional process various aspects of subject matter frequently are drawn from other subject-matter areas.

Instruction is concerned with developing (1) good citizenship, patriotism, self-reliance, leadership, and responsiveness to constituted authority; (2) knowledge of basic military skills and appreciation of the role of the military services in military defense; and (3) informed citizens, strength of character, and understanding of the responsibility of citizens in a

democratic society.

The following rationale was applied to the selection of the items for placement in the Junior ROTC area: (1) the various items selected and classified were determined as including the aspects of Junior ROTC most commonly taught; (2) the items could be defined in brief form using only salient descriptive elements; and (3) the various items classified were identified by titles that are considered to be in current use in Junior ROTC.

Many items of information in chapters 3 and 4 are supportive to pupils, instructional staff, and subject matter in the instructional program. For examples, see the items classified in the X 07 00. Series-Evaluation and Curriculum Improvement on pages 71-78, and the items classified in the X 32 00. Series—School Services Supporting Instruction on pages 90-96. Graphic illustrations of these relationships are shown in table 7 on page 11 and in figure $\bar{2}$ on page 13.

The following items of information identify substantive content, specialized experiences, and career objectives emphasized in Junior ROTC.

22.01 00 00 00 ARMY JUNIOR ROTC

Organized subject matter and learning activities which are concerned with the development in each cadet (1) attributes



JUNIOR ROTC—Continued

of good citizenship and patriotism, (2) selfreliance, leadership, responsiveness to constituted authority, and (3) a knowledge of the basic military skills and appreciation of the role of the U.S. Army in national defense.

22.01 01 00 00

Introduction to ROTC/NDCC and Military Organization—The study of the purpose and objectives of the ROTC/NDCC program, including benefits that students may receive by participation in ROTC. Included in instruction are the history and background of ROTC/ NDCC, with emphasis on the local ROTC unit and its history, organiza-tion, traditions, awards, and decorations. Attention is given to orientation concerning the cadet uniform and insignia, including proper wear, care, and maintenance of the uniform. The basic theory of military organization with emphasis on unity of command and chain of command, its structure, flexibility, and the concept of tailored forces, is also emphasized.

22.01 02 00 00

Leadership-Planned learning activities designed to provide for leadership training, drill experience, and the development of certain essential characteristics of leadership such as initiative and self-confidence through progressive training in the school of the soldier and exercise of command. Subject matter and experiences are planned to develop in the student qualities of courtesy and discipline, habits of correct posture, precision in execution of drill movements, and response to a leader's orders; and provide practical experience in the duties and conduct of officers and noncommissioned officers in the exercise of command. Consideration is given to the similarity between leadership in military and civilian life and the necessity for responsiveness to constituted authority in both environments.

22.01 02 01 00

COURTESIES, CUSTOMS, AND RULES OF CONDUCT—Subject matter and experiences concerned with military courtesy, customs, and rules of conduct; salutes, terms of address and titles, and insignia of grade; honors to the National Anthem and to the flag, including display and care of the flag; personal honor and integrity; courtesies to individuals; and origins of customs. General indoctrination in traditions of the Army and pride in the uniform, military justice and the unit commander, and the Code of Conduct are emphasized.

22.01 02 02 00

LEADERSHIP, DRILL, AND EXERCISE OF COMMAND—Learning experiences designed for the soldier with and without arms. Drill for foot troops including squad, platoon, and company drill is emphasized, as are wearing, caring for, and maintaining the uniform. Duties and responsibilities of leaders and the individual soldier during ceremonies, parades, reviews, escorts, inspections, and regular drill periods and the development of command voice are studied and practiced. Preparation for and conduct of formal inspections in ranks and barracks are provided, as ap propriate, with and without personal field equipment. Particular emphasis is placed on proper methods of instruction and

supervision of physical training, e.g., organized athletics such as softball, volleyball, swimming, tennis, and such other sports as are permitted by local conditions and available time.

22.01 02 03 00

PSYCHOLOGY OF LEADERSHIP—An introductory course in leadership which emphasizes principles of leadership, leadership traits and techniques, response to leadership, human behavior, and adjustment to regimentation.

22.01 02 04 00

PRINCIPLES OF LEADERSHIP—Subject matter concerned with responsibilities and basic qualities of a leader, objectives of leadership, leadership principles and techniques, functions of the leader, and special problems of military leadership.

22.01 02 99 00

OTHER LEADERSHIP—Include here other organized subject matter and experiences emphasized in leadership which are not listed above. (Specify.)

22.01 03 00 00 Hygiene and First Aid-The study of elementary personal hygiene, general hygienic rules, body care and cleanliness, necessity of routine habits in daily bodily functions, care of the feet, and regular physical examiniations. Personal hygiene and individual health rules in the field, insect control and prevention of insect bites, cleansing of eating utensils, improvised washing and bathing facilities, waste disposal, march hygiene and camp sites, and field water supplies are emphasized. Instruction in-cludes responsibilities of leaders in matters of health control, dressing and protection of wounds, prevention of infection, control of hemorrhage, prevention of shock, control of pain, use of first-aid kit and packet, applicatory exercises in bandaging, artificial respiration, and first aid for common emergencies. Opportunities are provided for study and practice in first aid for poisons, snake bites, insect bites, heat exhaustion and heat stroke, and manually carrying the sick and wounded.

22.01 04 00 00

Weapons-Instruction which provides for detailed study of latest standard individual and crew-served weapons.

22.01 04 01 00

INDIVIDUAL WEAPONS — Instruction which provides for detailed study of the latest standard individual weapons. Emlatest standard individual weapons. Emphasis is given to rifle 7.62mm, M14 or U.S. rifle caliber .30 M1, including descriptions, characteristics, disassembly and assembly, operations, functioning, spare parts, accessories, ammunition, and care and cleaning. Familiarization with caliber .45 pistol, rifle 5.56mm M16, and hand and rifle grenades, machinegum 7.62mm, M60 and machinegun caliber .30 M191946 is provided M1919A6 is provided.

22.01 04 02 00

CREW-SERVED WEAPONS-Subject matter and experiences concerned with light crew-served weapons, including characteristics, general data, disassembly, assembly, and functioning. Instruction provides for familiarization with the 40mm grenade launcher M79, 3.5-inch rocket launcher, 66mm HEAT Rocket, M72, and/or other latest standard crew-served weapons. Classes on standard crew-served weapons, including mortars and antitank weapons with emphasis on the 81mm mortar and the 90mm and 106mm recoilless rifles, and characteristics, capabilities, and types of ammunition are conducted.

| 22 JUNIOR | ROTC—Continued | 22.01 08 00 00 | Map and Terrain Analysis—An introduc- tion to map and terrain analysis. Instruction |
|----------------|--|----------------|---|
| 22.01 04 99 00 | OTHER WEAPONS—Include here other organized subject matter and experiences emphasized in weapons which are not listed above. (Specify.) | | is concerned with marginal information, conventional signs and military symbols, grid coordinates, location and direction, azimuths, use of compass, scale and dis- |
| 22.01 05 00 00 | Marksmanship—Subject matter and experiences concerned with principles of marksmanship, demonstrations, student participation in sighting and aiming, posi- | | tance, and elevation and relief; location by intersection and resection; preparation of overlays; and introduction to aerial photograph reading. |
| | tions, trigger squeeze, sling adjustment, range procedure, and safety precautions. Range practice with the .22 caliber rifle and matches and competition with the .22 caliber rifle are conducted as applicable. | 22.01 09 00 00 | Military Teaching Methods—Subject matter designed to provide an introduction to military teaching methods, including the stages of instruction and the importance of each. Techniques used in planning and in- |
| 22.01 06 00 00 | American Military History — Subject matter designed to provide a brief resume of important U.S. Army campaigns and battles, achievements and traditions of the U.S. | | struction, speech techniques, the construc- tion and use of lesson plans and training aids, and the construction and use of tests to evaluate training are emphasized. |
| | Army, biographical sketches of prominent Army leaders, past and present, examples of personal heroism and unit gallantry in the U.S. Army, and famous mottoes, slogans, and colorful traditions of units. Congains, and the Army to the Nation cush | 22.01 10 00 00 | New Developments—Organized subject matter and experiences concerned with cur- rent unclassified developments in organiza- tion, tactics, weapons, techniques, and materiel of the Army. |
| | tributions of the Army to the Nation such as defense of the country, western exploration, and scientific and medical contributions are emphasized, including the "citizen soldier" tradition, and the role of the soldier in a democracy. | 22.01 11 00 00 | Military Service: Opportunities, Obligations, and Benefits—The study and analysis of the Senior ROTC Program, including scholarship opportunities; the National Guard, the Army Reserve, and the |
| 22.01 07 00 00 | Small Unit Tactics: Infantry—An organization of subject matter designed to teach the students basic tactics of small infantry units, to instruct in individual training of the infantry soldier, and to impart the principles and fundamentals of small unit | 22.01 12 00 00 | Regular Army; and opportunity for an offi- cer or enlisted career in the Regular Army. Counterinsurgency—Subject matter or- ganized to provide an introduction to coun- terinsurgency, including a brief analysis of the nature of insurgency, its environment, its prerequisites, the threat it constitutes, |
| 22.01 07 01 00 | INDIVIDUAL—Subject matter and experiences concerned with the tactical training of the individual soldier. Included for | | and motivation of the individual insurgent. Methods of combating insurgency and the Army's role in counterinsurgency are also studied. |
| 22.01 07 02 00 | study are organization of the rifle platoon with emphasis on the rifle squad; scouting and patrolling, day and night; individual protection of the soldier; elementary camouflage; and techniques of fire. SQUAD—Subject matter and experiences | 22.01 13 00 00 | Branches of the Army—Study concerned with the general mission and role of the various branches of the Army. The combat arms team, and the supply, service, and maintenance contribution of the technical and administrative services in furnishing |
| 22.01 01 02 00 | concerned with squad tactics. Instruction emphasizes organization of the rifle pla- toon, particularly the rifle squad; scouting and patrolling, day and night; elementary | 22.01 14 00 00 | combat service support to the field Army are emphasized. Communications—A combination of sub- |
| | camouflage; squad formations; techniques of fire of the squad; and the rifle squad in the attack and defense. | | ject matter and activities concerned with the methods and techniques of communica- tions, including messenger, wire, radio, vis- ual, and sound; basic wire communication |
| 22.01 07 03 00 | PLATOON—The study of the organization of the infantry company with emphasis on the rifle platoon, the rifle platoon in the attack and defense, platoon for- | | and equipment; basic radio communication and equipment; and radio procedure. The importance of communications in combat operations is stressed in instruction. |
| 22.01 07 04 00 | mations, and battle drill. COMPANY—The study of the company in the attack and defense. Tactical control measures and principles of defense, estimate of the situation, operations orders, and troop-leading procedures are included | 22.01 15 00 00 | Methods of Instruction—Subject matter designed to provide a thorough review of military teaching methods. Actual instruction is given by cadets with emphasis on the U.S. Army and its role in national security. |
| 22.01 07 05 00 | in instruction. Battalion—The study of the organization of the infantry battalion with emphasis on the rifle company. The combined arms team, tactical control measures and principles of defense, estimate of the | 22.01 99 00 00 | Other Army Junior ROTC—Include here other organized subject matter and experiences emphasized in Army Junior ROTC which are not listed or classifiable in one of the above categories. (Specify.) |
| 22.01 07 99 00 | situation, operations orders, and troop- leading procedures are all emphasized in instruction. OTHER SMALL UNIT TACTICS: INFANTRY | 22.02 00 00 00 | One of the military service branches directed by Section 2031, Title 10, United States Code, to establish JROTC Units at |
| 22.01 07 99 00 | —Include here other organized subject matter and experiences emphasized in small unit tactics, infantry, which are not listed above. (Specify.) | | public and private secondary institutions. The three-year program (sophomore, junior, and senior high school years) follows NAVPERS curriculums with the following |

22 JUNIOR ROTC—Continued

objectives: to develop informed citizens, strengthen character, promote an understanding of the military responsibilities of citizens in a democratic society, and develop an appreciation of the U.S. Navy and the role of sea power in the national defense.

role of sea power in the national defense.

22.02 01 00 00 Naval Science I—Subject matter and experiences provided in grade 10 with emphasis on topics such as Naval Orientation, Naval History, Customs, and Traditions, Importance of Sea Power, and Our Modern Navy, including United States History from a Navy viewpoint. Also included is an introduction to Drills, Commands, and Ceremonies.

22.02 01 01 00 DRILLS, COMMANDS, AND CEREMONIES—
The study of and practical training in the nomenclature, positions, movements, and other aspects of military drill on the squad, platoon, and company levels. Performance may be with or without arms (rifles).

22.02 01 02 00 ORIENTATION AND SEA POWER—The study of the history, customs, courtesies, and organization of the U.S. Navy. Instruction is planned to impress upon the cadet the importance of sea power and the need for a strong modern Navy.

22.02 01 99 00 OTHER NAVAL SCIENCE I TOPICS—Include here other subject matter and experiences emphasized in Naval Science I which are not listed above. (Specify.)

22.02 02 00 00 Naval Science II—Subject matter and experiences provided in grade 11 with emphasis on topics such as science (oceanography and meteorology), navigation (e.g., aids, charts, rules of the nautical road, dead reckoning, and piloting), and Seamanship (marlinspike, deck, and boat). Also included are first aid and more advanced participation in Drills, Commands, and Ceremonies. The fundamental skills and knowledge necessary to a man aboard a navy ship comprise an important part of instruction.

22.02 02 01 00 ADVENTURES IN SCIENCE—The study of the basic facts, concepts, and principles of the branches of science most useful to future naval officers and enlisted personnel in the performance of their duties aboard ship.

22.02 02 01 01 Meteorology—(For definition see Earth-Space Sciences, 13.04 03 00 00 Meteorology, under NATURAL SCI-ENCES.)

22.02 02 01 02 Oceanography—(For definition see Earth-Space Sciences, 13.04 04 00 00 Oceanography, under NATURAL SCI-ENCES.)

22.02 02 01 99

Other Adventures in Science Topics—
Include here other topics emphasized in the adventures in science which are not listed above. (Specify.)

22.02 02 02 00 DRILLS, COMMANDS, AND CEREMONIES—
(For definition see 22.02 01 01 00 Drills,
Commands, and Ceremonies under Naval
Science I.)

22.02 02 03 00 First Aid—(For definition see 08.01 06 00 00 First Aid under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION.)

22.02 02 04 00 NAVIGATION I—The study of the art/science that enables the mariner to (1)

determine his ship's position, and (2) guide her safely from one point to another. Included in instruction are the basic fundamentals of piloting, dead reckoning, electronic navigation, rules of the road, and the use of navigational instruments and aids.

22.02 02 05 00 Seamanship—The study of the fundamentals of the art of handling, working, and navigating naval ships and small craft. Included in instruction are the basic fundamentals of boat, deck, and marlinspike seamanship and small craft safety.

22.02 02 99 00 OTHER NAVAL SCIENCE II TOPICS—Include here other subject matter and experiences emphasized in Naval Science II which are not listed above. (Specify.)
22.02 03 00 00 Naval Science III—Subject matter and ex-

On Naval Science III—Subject matter and experiences provided in grade 12 with emphasis on topics such as science (astronomy), navigation (relative motion, bearings, plotting, vector diagrams, and celestial navigation), and electronics (communications, radar, sonar). Also included are leadership and more advanced participation in Drills, Commands, and Ceremonies. An important aspect of instruction is the development of an understanding of the principles of the more technical functions and equipment aboard naval vessels.

22.02 03 01 00 ADVENTURES IN SCIENCE—(For definition see 22.02 02 01 00 Adventures in Science under Naval Science II.)

22.02 03 01 01

Astronomy—(For definition see Earth-Space Sciences, 13.04 01 00 00 Astronomy, under NATURAL SCIENCES.)

22.02 03 01 99

Other Adventures in Science Troiss—

Include here other torics complexical

Include here other topics emphasized in the adventures in science which are not listed above. (Specify.)

22.02 03 02 00 Drills, Commands, and Ceremonies—
(For definition see 22.02 01 01 00 Drills,
Commands, and Ceremonies under Naval
Science I.)

22.02 03 03 00 ELECTRONICS—The study of the basic concepts in the field of electronics. Emphasis is placed primarily on the theory of operation of typical electronic devices involved in communications, radar, and sonar.

22.02 03 03 01

Communications—Specialized learning experiences in elementary interior and exterior naval communications to develop in the cadet an appreciation of the importance of reliability, security, speed, and the methods employed to achieve them.

22.02 03 03 02

Radar—Classroom study of the basic principles for using the electronic device of RADAR (radio detection and ranging) to detect the presence, range, bearing, elevation, and speed of airplanes, ships, and land masses in darkness, fog, or storm.

Sonar—Classroom study of the basic principles for using the electronic device of SONAR (sound navigation and ranging) as underwater sound equipment for submarine detection and navigation.

Other Electronics—Include here other organized subject matter and experiences emphasized in electronics which are not listed above. (Specify.)

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22.02 03 03 03

22.02 03 03 99

| 22 JUNIOR | ROTC—Continued | | changes that have resulted in the |
|----------------|---|----------------|--|
| 22.02 03 04 00 | Judo—Organized subject matter and ex- periences concerned with the basic funda- mentals of a refined form of jujitsu pre- sented as part of the physical fitness | | American society and economy, in- cluding effects upon education, geog- raphy, science, communication, com- merce, security, and everyday life, is in- cluded in instruction. |
| 22.02 03 05 00 | emphasis in the Navy Junior ROTC program. LEADERSHIP—The study and development of understanding concerning the | 22.03 01 03 00 | AIRCRAFT OF TODAY—Subject matter and experiences applied to modern aircraft, e.g., component parts, differences in design and purpose, and basic terms and |
| | basic essentials of an effective naval leader. Included in instruction are such areas as moral responsibility, loyalty, de- votion to duty, self-confidence, initiative and ingenuity, courage, ability to or- ganize and make decisions, and personal | | ideas related to flight and propulsion; the general capabilities of current military and commercial models; and familiarization with military and nonmilitary aircraft to the extent of being able to identify or describe each. |
| 22.02 03 06 00 | NAVIGATION II—An extension of the study of the art or science that enables the mariner to (1) determine his ship's position, and (2) guide her safely from one point to another as described in Navi- | 22.03 01 04 00 | SPACE AND THE UNIVERSE—The study of space geography and related terminology and concepts. Recent knowledge about neighbors of the earth and ideas for future space travel are emphasized in instruction. |
| | gation I. Included for additional study are the basic fundamentals of relative motion, bearings and plotting, vector diagram of speed triangle, intercept so- lutions, celestial navigation, and other related factors. | 22.03 01 05 00 | Spacecraft and Launch Vehicles— The study of terminology and general principles of rocketry and the rockets and missiles now in use, including current and recent space flights and projected ones. |
| 22.02 03 07 00 | SURVIVAL—Organized subject matter and experience concerned with the basic fundamentals necessary to the preservation of life in the face of disaster. Emphasis is on survival in the water and the use and care of equipment normally available. | 22.03 01 06 00 | Weather—The study of atmospheric components and phenomena as applied to meteorology and aeronautics, including the nature of forecasting and its importance to aviation and the Air Force, and the evolution of weather technology. |
| 22.02 03 99 00 | OTHER NAVAL SCIENCE III TOPICS—Include here other subject matter and experiences emphasized in Naval Science III which are not listed above. (Specify.) | 22.03 01 07 00 | THE AIR FORCE COMMUNITY—The study of the air force base as (1) a military community, including its geography, facilities, and ways of functioning; and (2) the worldwide complex of air bases and the |
| 22.02 99 00 00 | Other Navy Junior ROTC—Include here other organized subject matter and experiences emphasized in Navy Junior ROTC which are not listed or classifiable in one of the above categories. (Specify.) | 22.03 01 08 00 | meaning for American society. AIR FORCE TRADITIONS, CUSTOMS, AND FLICHT DRILL—Subject matter and experiences designed to help the student become acquaninted with the existence |
| 22.03 00 0. 00 | AIR FORCE JUNIOR ROTC A combination of subject matter and experiences involving principles, skills, knowledge, and appreciation concerned with the role of the United States Air Force in national defense. Instruction also emphasizes the development of citizenship, character, leadership, self-reliance, and general knowledge. | | and development of Air Force traditions and customs, including United States flag etiquette, the hand salute, respect for authority, principles of honor and integrity, and allegiance to country. Emphasized are appreciation of the need for discipline in military group activities; learning to wear the uniform properly and proudly; and learning individual positions |
| 22.03 01 00 00 | Introduction to Aerospace Education— Subject matter and experiences concerned with initial exploration of aseospace factors, including an overview of the development and impact of aerospace, a familiarization with aircraft and spacecraft, an examination | 22 02 01 00 00 | and facing movements, the rank and file maneuvers required to move a formation of flight size, and how to give commands for such actions. Opportunity for demon- stration of attained proficiency is pro- vided in instruction. |
| | of the environment in which such craft operate, and an orientation to the work of the United States Air Force and the cus- toms and courtesies used by its military members. | 22.03 01 99 00 | OTHER INTRODUCTION TO AEROSPACE EDUCATION—Include here other organ- ized subject matter and experiences emphasized in the introduction to aero- space education which are not listed |
| 22.03 01 01 00 | THE COMING OF THE AEROSPACE AGE— The study of antecedents and early begin- nings of aviation and the advent of space exploration; a look at the pioneers of aero- space and their contributions; and the developments that have led to the present state of aerospace technology. | 22.03 02 00 00 | above. (Specify.) Elements of Aerospace Education—Subject matter and experiences designed for the study of selected areas of aeronautics, e.g., examination of the component factors of aerospace power, and the development of individual and group skills sufficient for appropriate participation in Air Force cere- |
| 22.03 01 02 00 | Aerospace and the American People—The study of the impact of the development of aircraft and spacecraft upon the people of the United States and other nations. A resume of the | 22.03 02 01 00 | monies. Theory of Aircraft Flight—Subject matter and experiences concerned with the study of aerodynamic forces as related to atmospheric properties, in- |



JUNIOR ROTC—Continued

cluding an examination of the structure of the aircraft, its central mechanisms, and its characteristics in flight. The student is introduced to aircraft instruments, preflight, flight, and postflight check procedures.

22.03 02 02 00

PROPULSION SYSTEMS FOR AIRCRAFT— The study of the factors influencing at-mospheric flight through propulsive means. Fuels, machines, component sections of reciprocating engines, jet engines, and rockets are studied. Physical and chemical properties and indices of relative efficiencies are explored. Other functional systems of an aircraft are examined as they relate to aircraft propulsion.

22.03 02 03 00

AIR NAVIGATION-Subject matter and experiences concerned with exploring the use of maps, charts, and various forms of projections which are basic navigator tools. Pilotage, dead reckoning, and radio navigation are introduced in instruction and practical navigation problems are explored and solved. The role of the Federal Government in providing navigational and communication aids is examined.

22.03 02 04 00

AEROSPACE INDUSTRY AND RESEARCH-The study and analysis of the scope and breadth of aerospace industry: personnel, functions, financial considerations, products, plant locations, and general industrial trends. Emphasis is on the recognition of aerospace power as a combined resultant of all contributing forces, i.e., military air, civilian air, and the sup-porting facilities, personnel, industries, and educational systems. In the review of research activities and potential, an examination is made of new and projected aircraft developments.

22.03 02 05 00

CIVILIAN AVIATION AND FACILITIES-An examination of civil air factors, including facilities and their planning, development, and utilization. The need for national coordination and support of Federal agencies is also included. The student examines air carrier organizations with particular attention to scheduled and nonscheduled airlines. Additionally, airtaxis, charter operations, and agricultural, business, and recreational flying are reviewed. Problems of scheduling, safety, sales, tariffs, engine overhauls, franchises, personnel, duties, and long-range programs are covered.

22.03 02 06 00

MILITARY AEROSPACE—Subject matter MILITARY AEROSPACE—Subject matter and experiences designed to help the student become acquainted with the tasks of the Air Force and the capability of Air Force personnel and units in the use or support of strategic, tactical, and defensive weapons systems. In addition to establishing the specific aerospace roles of the Air Force, a review of Army and Navy air is also included in instruction.

22.03 02 07 00

TECHNIQUES OF INSTRUCTION AND CER-EMONIAL DRILL—Subject matter and experiences concerned with helping students become familiar with the concepts of how to instruct others. Opportunities are provided to apply these concepts in teaching drill skills and the knowledge of ceremonies to beginners in the AFJROTC program. Emphasis is on increasing knowledge and abilities to the point that one can competently participate in squadron-size and larger mass formations. As in the first year, application of attained proficiency

22.03 02 99 00

OTHER ELEMENTS OF AEROSPACE EDUCA-TION—Include here other subject matter and experiences emphasized in elements of aerospace education which are not listed above. (Specify.)

22.03 03 00 00

Aerospaceage Leadership—Subject matter which is designed to provide explanation of space technology and space programs; a review of leadership opportunities in space, national defense, and aerospace preparation; and an analysis of factors and techniques involved in leadership situations.

22.03 03 01 00

SPACE EXPLORATION: MANNED AND UN-MANNED FLIGHT—A study of subject matter concerned with the capabilities and restrictions that characterize man in relationship to the total problem of conquest of space. The state of development of the U.S. space programs is analyzed in order to determine the degree of progress that has been made and implications for the future. In addition, a careful review is made of the area of peaceful scientific exploration and probes into space.

22.03 03 02 00

SPACE TECHNOLOGY/PROPULSION: GUID-ANCE AND CONTROL OF SPACE VEHICLES

—A semitechnical study of two basic essentials of space technology: (1) an examination of the generally-used propulsion systems as well as a futuristic overview of more sophisticated systems. overview of more sophisticated systems; and (2) the orderly progression from the simple to the more complex systems of guidance and control, with attention to the facilities and organizations involved.

Study involving summary and discussion

of the achievements of other nations in the application of current and future space programs, including the implications for international law. Plans for future U.S. programs are analyzed.

HUMAN FACTORS OF AVIATION AND SPACE—Subject matter concerned with

SPACE PROGRAMS—

INTERNATIONAL

22.03 03 03 00

22.03 03 04 00

the detailed study of the physiological aspects of aviation and flight. The aspects of aviation and flight. The training requirements, selection procedures, and projected needs of the astronaut program are included. Leadership in the aerospace age and the identification of the role and techniques of the leader are critically reviewed, including the identification of future needs for national and international aerospace leadership.

tional aerospace leadership.

22.03 03 05 00

THE DEFENSE OF THE UNITED STATES-Study involving the examination of national defense structure, including the executive agencies, the Department of Defense, the USAF, the U.S. Navy, the U.S. Army, the U.S. Marines, and the U.S. Coast Guard. Particular attention is devoted to the national aerospace program and the interrelated responsibilities of the agencies men-tioned above. Civil defense, its need and functions, is studied with attention given to civilian defense organization at the local level.

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COCURRICULAR ACTIVITIES— Continued

| Continue | ed |
|----------------|---|
| 22.03 03 06 00 | Aerospace Opportunities for the Individual—Subject matter concerned with an introduction to the spectrum of vocational and educational opportunities in aerospace work. Civilian and government careers in aerospace are reviewed; the nature of military obligations is examined in relationship to commissioning and enlistment opportunities; and, in particular, the educational and professional challenges of college-level Air Force ROTC are discussed. |
| 22.03 03 07 00 | Aerospace Leadership Application—Subject matter concerned with ledership techniques that are useful in dealing with fellow students, particularly in AFJ-ROTC. Problem solving and the analysis of skills valuable in leading others are introduced. Knowledge is applied and experience is provided through occupancy of leadership positions in the cadet organization. The opportunity to improve further the ability to instruct other students is continued through this third year. |
| 22.03 03 99 00 | OTHER AEROSPACEAGE LEADERSHIP—Include here other subject matter and experiences emphasized in aerospaceage leadership which are not listed above. (Specify.) |
| 22.03 04 00 00 | National Security—The examination and study of the elements of national security, the military organization, and the military in action. |
| 22.03 04 01 00 | ELEMENTS OF NATIONAL SECURITY, PART I—Subject matter designed for a study of the nature and purpose of war, the functions and employment of the United States military forces, and the current prospects and trends in the search for world peace. |
| 22.03 04 02 00 | ELEMENTS OF NATIONAL SECURITY, PART II—Subject matter designed for extending the study of the nature and purpose of war, the functions and employment of the United States military forces, and the current prospects and trends in the search for world peace. |
| 22.03 04 03 00 | THE MILITARY ORGANIZATIONS IN ACTION—A combination of subject matter and skills development designed to provide practical leadership experiences in basic military and officer-type activities. |
| 22.03 04 99 00 | OTHER NATIONAL SECURITY—Include here other subject matter and experiences emphasized in national security which are not listed above. (Specify.) |
| 22.03 99 00 00 | Other Air Force Junior ROTC—Include here other subject matter and experiences emphasized in Air Force Junior ROTC which are not listed or classifiable in one of the above categories. (Specify.) |
| 22.04 00 00 00 | MARINE CORPS JUNIOR ROTC A combination of subject matter and |

experiences involving principles, skills, knowledge, and appreciation concerned with

the role of the United States Marine Corps

in national defense. Instruction also includes the principles and processes of military training, and emphasizes the development of citizenship, character, leadership, self-reliance, and general knowledge. 22.04 01 00 00 Military Training I-Basic subject matter and learning activities which are concerned with the principles and processes involved with the principles and processes involved in military training. In practice, activities include classroom instruction and application in and out of school. Aspects of basic military training are organized under a variety of descriptive titles such as History and Traditions of the Marine Corps, Military Organization, and Weapons and Marksmanship. INTRODUCTION TO MARINE CORPS JUNIOR RESERVE OFFICER TRAINING CORPS—Subject matter concerned with the purpose and objectives of Marine Corps Junior Reserve Officer Training Corps, its benefits and potentialities, and requirements for advancement. Attention is also given to local awards and decora-tions, organization of the local unit, wearing of uniform, and cadet insignia of HISTORY AND TRADITIONS OF THE MA-MILITARY ORGANIZATION—The study of the underlying theory of Marine Corps organization in simplified form, with emphasis on the following: Necessity for one leader for each unit or subdivision; span of control and the chain of command; assignment of specific duties and responsibilities to all personnel; integration of smaller units into larger teams; and general design of military organization to fit missions to be performed. COURTESIES, CUSTOMS, AND RULES OF CONDUCT—Subject matter that is concerned with military courtesy, customs, and rules of conduct. Emphasized in instruction are a brief introduction to the punitive address and titles, insignia of grade, and honors to the National

Anthem and to the flag; display and care of the flag; personal honor and integrity; courtesies to individuals; and origin of customs. General indoctrination in pride of the Marine Corps uniform and the traditions of the Marine Corps are also included. HYGIENE—Subject matter which is concerned with elementary personal hygiene, general rules, care of the body, cleanling the state of routine habits in the

> FIRST AID-A combination of subject matter and experiences concerned with dressing and protecting wounds, pre-vention of infection, control of pain, use of first-aid kit and packet, applicatory exercises in bandaging, artificial respiration, first aid for poisons, snake bites, insect bites, heat exhaustion and heat stroke, and manually carrying the sick and wounded. (See also 08.01 06 00 00

22.04 01 01 00

22.04 01 02 00

RINE CORPS—Subject matter devoted to the basic history and traditions of the Marine Corps from 1775 to the psesent

22.04 01 03 00

22.04 01 04 00

22.04 01 05 00

ness, necessity of routine habits in the daily bodily functions, regular physical examinations, and care of the feet. Included in instruction are personal hygiene and individual health rules in the field, insect control and prevention of insect bites, cleansing of eating utensils, impro-vised washing and bathing facilities, waste disposal, march hygiene and campsites, and field water supplies. Responsi-bility of the individual leader in matters of health control is emphasized.

22.04 01 06 00



22 JUNIOR ROTC—Continued

First Aid under HEALTH AND SAFETY IN DAILY LIVING, PHYSICAL EDUCATION, AND RECREATION.)

22.04 01 07 00

Leadership, Drill, and Exercise of Command—Instruction concerned with the definition of and necessity for military discipline. Activities include school of drill for the Marine with and without arms, and drill for foot troops including squad, platoon, and company drill. A minimum of six hours of Marine Corps physical training methods and techniques, including administration of the Marine Corps recruit physical fitness tests, is an integral portion of the program. Characteristics of military commands and orders; development of the command voice; ceremonies, reviews, parades, escorts, and inspections; and interior guard duty are emphasized in instruction.

22.04 01 08 00

Weapons—Instruction in weapons which emphasizes familiarization with the U.S. Rifle Caliber .30 M1, and a detailed study of the U.S. Rifle, 7.62mm M-14, and includes description, characteristics, disassembly and assembly, functioning, operations, stoppages and immediate action; spare parts, accessories, ammunition, care and cleaning; and familiarization with the bayonet, the hand grenade, and the M79 grenade launcher.

22.04 01 09 00

MARKSMANSHIP—Study and practice of the principles of marksmanship. Included are demonstrations and student participation in sighting and aiming positions, trigger squeeze, sling adjustment, range procedures, and emphasis on safety precautions; range practice with the caliber .22 rifle; and matches and competition with the caliber .22 rifle as practicable.

22.04 01 99 00

OTHER MILITARY TRAINING I—Include here other organized subject matter and experiences emphasized in Military Training I which are not listed above. (Specify.)

22.04 02 00 00

Military Training II—An extension of Military Training I, including classroom instruction and application in and out of school emphasizing aspects of basic military training such as Leadership, Drill and Exercise of Command; Small Unit Infantry Tactics; Map Reading and Use of the Compass; and Individual Training for Atomic Warfare.

22.04 02 01 00

MILITARY ORGANIZATION—A review of previous instruction in military organization. Extended emphasis is on organization of the rifle platoon of the rifle company, a brief resume of the position of the rifle company in the infantry battalion, and the position of the battalion in the infantry regiment. Attention is given to the position of the Marine Corps in the national defense structure.

22.04 02 02 00

LEADERSHIP, DRILL, AND EXERCISE OF COMMAND—An extension of previous instruction in leadership, drill, and exercise of command. Morale, essentiality of leadership, command presence, understanding people, and drill of the Marine with and without arms are emphasized. Also included are squad and platoon drill, parades, reviews, inspections, cer-

22.04 02 03 00

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emonies, interior guard duty, and Marine Corps methods of physical training. Weapons—A review of the M-1 rifle and M-14 rifle with an extended study of weapons, including the U.S. Pistol Caliber .45 M1911A1: Its characteristics, general data, disassembly and assembly, safe-handling procedures, and functioning. Also provided is familiarization with the M-72 Light Antitank Weapon.

Marksmanship—A review of material and experiences in marksmanship presented during previous year. Demonstration and student participation in sustained fire exercises; effect of wind; scorebook; sight seeing and target dimensions; and matches and competitions with caliber .22 rifle as practicable, are emphasized.

22.04 02 05 00

SMALL UNIT INFANTRY TACTICS—Subfect matter and experiences concerned with organization of the Marine rifle squad, emphasizing duties of each squad member and the organization patrols. Included are arm and hand signals; individual protection of the Marine; elementary camouflage; duties of scouts and leaders, scouting by day and night, information, and observing and reporting; form of reports; prisoners, principles of security, and outguards and outposts; tactics of the squad on attack/defense; security missions, including troop-leading procedure, orders, and defense of obstacles; and technique of fire of the individual and the squad.

Map Reading and Use of the Compass—Subject matter and experiences which provide an introduction to map reading and uses of the compass. Marginal information, conventional signs, military symbols, measuring map distances, grid coordinates, elevation, locating and direction, determining direction with and without compass, orientation of maps, and preparation of overlays are included. Indivolval Training for Atomic Warfare—Subject matter which is concerned with the general characteristics of atomic warfare and individual protective measures and techniques. Empha-

weapons; and individual actions required when atomic weapons are utilized. OTHER MILITARY TRAINING II—Include here other organized subject matter and experiences emphasized in Military Training II which are not listed above. (Specify.)

sized in instruction are the effects and damages that atomic weapons produce; limitations and capabilities of atomic

Military Training III—An extension of Military Training I and II, including classroom instruction and application in and out of school emphasizing aspects of basic military training such as History and Traditions of the Marine Corps; Leadership, Drill, and Exercise of Command; Weapons; Marksmanship; Maps and Aerial Photographs; Small Unit Tactics; Infantry; Military Teaching Methods; New Developments; Organization of the Marine Corps; and Military Service: Opportunities, Obligations, and Benefits.

22.04 03 01 00

HISTORY AND TRADITIONS OF THE MARINE CORPS—Subject matter comprised of a short resume of Marine Corps history

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JUNIOR ROTC—Continued

and expansion of Marine Corps campaigns and battles during World War II, Korea, and Vietnam. Biographical sketches of prominent Marine leaders, past and present; specific examples of personal heroism and unit gallantry in the Marine Corps; hardships endured and sacrifices made by the Marine Corps for the Nation; famous mottoes, slogans, and colorful traditions of the Marine Corps; contributions of the Marine Corps to the Nation throughout history in defense of the country; and the role of the Marine in a democracy are emphasized. Also included in instruction is a review of the Code of Conduct for members of the Armed Forces of the United States.

22.04 03 02 00

LEADERSHIP, DRILL, AND EXERCISE OF COMMAND—An extension of previous instruction in leadership, drill, and exercise of command. Psychological factors of leadership, actions of a leader, self-analsis, and attitudes of officers and noncommissioned officers; preparation for command, communication of orders, and methods of giving commands; platoon and company drill, parades, reviews; and inspections and ceremonies are emphasized.

22.04 03 03 00

Weapons—A review of weapons studied during the first and second years with emphasis on the M-14 rifle. Instruction provides for a brief familiarization with the machine gun 7.62mm M-60, the 60mm and 81mm mortars, and the 106mm recoilless rifle, including characteristics, capabilities, and types of ammu-

22.04 03 04 00

MARKSMANSHIP—A review of the rifle marksmanship. Additional training includes sighting and aiming; positions, trigger squeeze, sustained fire, windage, scorebook, and sight setting; stimulation of interest in marksmanship through range practice; and matches and competitions utilizing small-bore facilities as available.

22.04 03 05 00

MAPS AND AERIAL PHOTOGRAPHS-Subject matter designed to provide a thorough review of previous instruction in map skills. A brief introduction to aerial photographs and photomaps, including the types used by the Marine Corps, identification, orientation, and uses are emphasized.

22.04 03 06 00

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SMALL UNIT TACTICS: INFANTRY-Subject matter designed to provide a brief review of previous instruction in small unit tactics. Combat formations of the rifle platoon, including arm and hand signals; duties of the platoon leader; the rifle platoon, reinforced with elements of the weapons platoon in the attack, defense, and withdrawal—including the use of firepower, reconnaissance, security measures, and combat intelligence; the use of cover, concealment, and observation; and battlefield firing positions are all empha-

22.04 03 07 00

MILITARY TEACHING METHODS—Subject matter comprising an introduction to military teaching methods. Included are selected aspects of instructional techniques and used in planning and presenting in-struction; speech techniques for the instructor; the construction and use of lesson plans and training aids; and familiarization of cadets with methods of military instruction to enable them to conduct elementary instruction in basic military subjects.

22.04 03 08 00

New Developments-Subject matter concerned with current unclassified developments in organizations, tactics, weapons, techniques, and material of the Marine Corps. Methods used to develop new equipment are also included.

22.04 03 09 00

ORGANIZATION OF THE MARINE CORPS-A study of the mission and role of the Marine Corps. The supply, service, and maintenance contributions of the technical and administrative services, including close combat support, are emphasized.

22.04 03 10 00

MILITARY SERVICE: OPPORTUNITIES, OBLIGATIONS, AND BENEFITS—Subject matter which emphasizes opportunities for both officer and enlisted careers in the Marine Corps. The Selective Service Act of 1948, the Universal Military Training and Service Act, and the Marine Corps Reserve are studied. Information on the United States Naval Academy (USNA), including opportunity for appointment, history, and traditions of the USNA, and operations of the USNA Corps of Midshipmen; infor-mation concerning the NROTC (Marine Option) program and the Naval En-listed Scientific Education Program (NESE): and general information (NESEP); and general information on the Marine Corps Officer Candidate and Platoon Leaders Course Programs, and the Warrant Officer and LDO Programs, are emphasized.

22.04 03 99 00

OTHER MILITARY TRAINING III—Include here other organized subject matter and experiences emphasized in Military Training III which are not listed above. (Specify.)

22.04 99 00 00 Other Marine Corps Junior ROTC-Include here other subject matter and experiences emphasized in the Marine Corps Junior ROTC which are not listed or classifiable in one of the above categories. (Specify.)



Glossary

The glossary contains definitions of terms used but not defined in the context of this handbook and such additional terms as seem necessary to common understanding underlying records and reports about curriculum and instruction in elementary, secondary, junior college and adult education. Terms defined elsewhere in this handbook may be located through the use of the index or through the classifications of chapters 3 and 5.

This glossary is arranged alphabetically and includes a limited amount of cross-referencing. Where reference is made to a term included in the glossary, no page number is given; however, a page number is included where reference is made to a term in another portion of the handbook. Multiworded terms are not inverted; groups of terms having common words may be located by using the index.

Many of the definitions have been taken directly from the previous handbooks of the State Educational Records and Reports Series: Handbooks I,¹ III,² III,³ IV,⁴ and V.⁵ The respective handbooks from which definitions have been taken are indicated by the Roman numeral designation of the handbook or, in the case of the handbook Financial Accounting for School Activities, by the letters (FASA). Notation is included for those instances in which definitions from preceding handbooks have been modified to clarify their meaning when used to describe aspects of instructional programs.

Acceleration-The completion of a predetermined amount of schoolwork in less time than is required normally.

Administrative Unit-A geographic area which, for specified public school purposes, is under the control of a board of education and the supervision of one or more administrative officers. (Handbook I, clarified; Handbooks IV and V, clarified)

Adult—An individual who has reached a specified minimum legal age of adulthood, usually 18 years. (Handbooks IV and V, modified)

Adult Basic Education—Education at the elementary instructional level (through the eighth grade)—usually with emphasis on communicative, computational, and social skills-given to enable an adult or youth beyond the age of compulsory school attendance to raise his level of education, pursue a program of occupational training, and/or function more adequately as a citizen in a democratic society.

Adult Education—Instruction designed to meet the unique needs of adults and youth-beyond the age of compulsory school attendance-who have either completed or interrupted their formal education. This may be provided by a school system, college, or other agency or institution (including a technical institute or area vocational school) through activities and media such as formal classes, correspondence study, radio, television, lectures, concerts, demonstrations, and counseling.

Adult Education Program—A program of instruction primarily for adults and youth beyond the age of compulsory school attendance. (Handbook V, modified) See also Adult Education.



¹ Paul L. Reason, Emery M. Foster, and Robert F. Will, The Common Core of State Educational Information. Washington: U.S. Government Printing Office, 1953. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook I, Bulletin 1953, No. 8.

² Paul L. Reason and Alpheus L. White, Financial Accounting for Local and State School Systems: Standard Receipt and Expenditure Accounts. Washington: U.S. Government Printing Office, 1957. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series Handbook II, Bulletin 1957, No. 4.

³ Paul L. Reason and George G. Tankard, Jr., Property Accounting for Local and State School Systems. Washington: U.S. Government Printing Office, 1959. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook III, Bulletin 1959, No. 22.

⁴ Allan R. Lichtenberger and Richard J. Penrod, Staff Accounting for Local and State School Systems. Washington: U.S. Government Printing Office, 1965. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook IV, Bulletin 1965, No. 18.

⁵ John F. Putnam and George G. Tankard, Jr., Pupil Accounting for Local and State School Systems. Washington: U.S. Government Printing Office, 1964. U.S. Department of Health, Education, and Welfare, Office of Education, State Educational Records and Reports Series: Handbook V, Bulletin 1964, No. 39.

⁶ Everett V. Samuelson, George G. Tankard, Jr., and Hoyt W. Pope, Financial Accounting for School Activities. Washington: U.S. Government Printing Office, 1959. U.S. Department of Health, Education, and Welfare, Office of Education, Bulletin 1959, No. 21.

- Adult School—A separately organized school providing instruction for adults and youth beyond the age of compulsory school attendance. (Handbook V, modified)
- Apprentice—A worker who is learning a recognized occupation in accordance with a written apprentice-training contract between him and his employer or employers which provides for a given period of planned work experience through employment on the job, supplemented by appropriate related instruction, and with other specified provisions of the arrangement.
- Apprenticeship Training—An organized system for providing young people with the manipulative skills and technical or theoretical knowledge needed for competent performance in skilled occupations. The program usually involves cooperation among schools, labor, and management, since apprentices learn the skills of their craft through on-the-job work experiences, and the related theoretical information through classroom instruction. The minimum terms and conditions of apprenticeship are regulated by State and local statutes or agreements.
- Area Vocational School—A public school which has been approved by the State board for vocational education to provide instruction in the occupations (other than professional occupations) to residents of a State, a county, a major city, or another designated geographic area usually larger than one local basic administrative unit. (Handbooks IV and V, clarified)
- Atypical Characteristic—A characteristic of an individual in a given chronological age group which is markedly different from that of the mean. (V) See also Type of Exceptionality and Exceptional Children.
- Atypical Pupil—A pupil revealing a physical, mental, or behavioral characteristic which is markedly different from that of the mean of his chronological age group. (V) See also Atypical Characteristic, Exceptional Children, and Exceptional Pupils.
- Audiolingual Approach—An approach to language instruction emphasizing that element of language (sound) which is spoken in normal, everyday, conversational interchange as differentialized from language as gesture or as writing. This sometimes is referred to as the "aural-oral" approach.
- Auditory Handicap—An impairment in hearing that adversely affects the performance of an individual. A person identified as having an auditory handicap may be referred to as "hard of hearing" or "deaf," according to the nature and severity of his handicap. (V)
- Average Daily Attendance—The aggregate days attendance of a given school during a given reporting period divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered as days in session. The reporting period is generally a given regular school term. The average daily attendance for groups of schools having varying lengths of terms is the sum of the average daily attendances obtained for the individual schools. (Handbooks I, II, and III, modified) (IV) (V)
- Average Daily Membership—The aggregate days membership of a given school during a given reporting period divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered as days in session. The reporting period is generally a given regular school term. The average daily membership for groups of schools having varying lengths of terms is the sum of the average daily memberships obtained for the individual schools. For purposes of obtaining statistical comparability only, pupil-staff ratios involving kindergarten and prekindergarten pupils attending a half-day session are computed as though these pupils are in membership

- for a half day. (Handbooks I, II, and III, modified; Handbooks IV and V, clarified)
- Average Membership Per School—The total membership of schools in a reporting unit, as of a given date, divided by the number of schools in the unit. (V)
- Average Number of Children Per Attendance Area—The total number of children of school age in an administrative unit divided by the number of attendance areas within the administrative unit. (V)
- Average Number of Children Per Local Basic Administrative Unit—The total number of children of school age in a given State (or intermediate unit) divided by the number of local basic administrative units within the State (or intermediate unit). (V)
- Bachelor's Degree—A degree usually conferred upon the successful completion of a 4-year college program of studies. (IV) (V)
- Balance—A purposeful variety in aims and objectives for pupils supported by an overall plan for instruction having flexibility in required and optional areas of content to be studied and diversity in types of learning experiences.
- Basic Education—A term frequently used in referring to education emphasizing literacy in language, mathematics, natural sciences, and history and related social sciences. See also Adult Basic Education.
- Boarding School-See Residential School, page 61.
- Branch Campus—A campus of an educational institution (usually an institution of higher education) which is located in a community different from that of its parent institution and beyond a reasonable commuting distance from the main campus of the parent institution.
- Business School—A nonpublic educational institution offering courses in preparation for business occupations such as stenography, bookkeeping, and data processing. Such an institution frequently is referred to as a "Private Business School" or "Business College."
- Cafeteria or Lunchroom—An area designed, or adapted, specifically for use in preparing meals for, or serving meals to, the student body or other groups, and providing facilities for eating such meals. (III)
- Casework—The application of the casework method. As used in this handbook, this involves thorough studies of individual pupils by staff members skilled in the casework method. (IV)
- Certificate of Training—See Certificate of Completion, page 85.
- Classroom Teacher—A staff member assigned the professional activities of instructing pupils—in self-contained classes or courses—in classroom situations for which daily pupil attendance figures for the school system are kept. (Handbook IV, clarified)
- Classroom Teachers Per 1,000 Pupils in Average Daily Membership—The number representing the total full-time equivalency of classroom teaching assignments in a school system during a given period of time, multiplied by 1,000 and divided by the average daily membership (ADM) of pupils during this period. (V)
- Combined Community College and Secondary School Plant—A school plant that houses on a permanent basis two schools only—a secondary school and a community college. (III) (V)
- Combined Elementary and Secondary School Plant—A school plant that houses on a permanent basis two schools only—an elementary school and a secondary school. (Handbooks I and II, modified) (III) (IV) (V)



- Community College—As used in this handbook, a junior college operated by the board of education of a local basic administrative unit (including the independent local board for one or more community colleges). Instruction is adapted in content, level, and schedule to the needs of the local community. (Handbooks I, II, and III, modified) (IV) (V) See also Junior College, page 61.
- Completion of School Work—Completing a program of studies and withdrawing from school. This includes graduation from high school (grade 12) or college, or otherwise fulfilling the requirements for a prescribed program of studies. Midyear or yearend transfer to a higher grade within the same school is not considered as completion of schoolwork. (V)
- Comprehensive High School—A secondary school with a number of departments (e.g., English, science, business, vocational) offering a diversified program to meet the needs of pupils with varying interests and abilities. (Handbooks IV and V, clarified)
- Computer Assisted Instruction—Programmed instruction utilizing an electronic computer as the principal medium of instruction.
- Concept—An idea or mental image of what a thing in general should be, especially a representation of the common elements or attributes distinguishing one group of objects or ideas from other groups.
- Congressional District—A geographical area within a State, defined for electoral purposes and identified by a number or code.
- Continuing Education—A term used synonymously with the term "adult education". See Adult Education.
- Continuity—The orderly, planned sequence of educational experiences, as from one grade, school level, stage of development, or aspect of subject-matter content to another.
- Contracted Services—Those services rendered to the school system through contract or other agreement with a firm, company, individual, or other educational agency or institution, such services being performed by a person or persons not on the school staff.
- Cooperative Education—A combination program of study and practice—conducted on an alternating schedule of half days, days, weeks, or other periods of time—providing legal employment for pupils with organized on-the-job training and correlated school instruction.
- Cooperative On-the-job Training—An activity in which pupils in occupational programs of studies spend a portion of their time in supervised employment (i.e., in on-the-job training) in business or industry. This activity frequently is referred to as "cooperative work experience."
- Cooperative Part time Employment Part time employment combined with schoolwork through cooperation between the school and business or industry.
- Cooperative Work Experience—See Cooperative on-thejob Training.
- Correlation—A plan whereby teachers of courses in two or more subject-matter areas endeavor to relate the work of a given group of pupils in these areas to common large problems.
- Course of Study—A written guide prepared by administrators, supervisors, consultants, and teachers of a school system or school as an aid to teaching a given course or an aspect of subject-matter content to a given type of pupil. See also Curriculum Guide.
- Credit—The unit of value, awarded for the successful completion of certain courses, intended to indicate the quantity

- of course instruction in relation to the total requirements for a diploma, certificate, or degree. Credits frequently are expressed in terms such as "Carnegie units," "credits," "semester credit hours," and "quarter credit hours." (IV)
- Crisis Teacher—A teacher, specially trained both in remedial education and in helping pupils overcome emotional problems, serving a single school by providing immediate help to individual pupils at times when they are unable to cope with their usual classroom situations. This periodic assistance is intended to enable pupils with behavioral difficulties (which may or may not be accompanied by academic difficulties) to return to their usual classrooms. Close liaison is maintained with classroom teachers and supporting services, and referrals are made as required for diagnosis and intensive help.
- Cultural Handicap—As used in this handbook, a deviation or deficiency in cultural or environmental background that adversely affects the school performance or learning of an individual. Individuals with cultural handicaps may be classified into groups such as: migrant children, functionally illiterate, the non-English speaking, and members of disadvantaged cultural groups.
- Current Expenditures—Total expenditures for administration, instruction, attendance and health services, pupil transportation services, operation of olant, maintenance of plant, and fixed charges plus net expenditures for food services and student body activities. Basically, this encompasses all expenditures except those for capital outlay, community services, and debt service, as included in the 100 series of accounts through the 800 series of accounts of Handbook II plus net expenditures for food services and student body activities. (Handbooks I, II, and III and FASA, modified)
- Current Expenditures Per Pupil—Current expenditures for a given period of time divided by a pupil unit of measure. (Handbooks II and V, modified) See also Current Expenditures and Pupil Unit of Measure.
- Current Expenditures Per Pupil in ADA (Regular School Term)—Current expenditures for the regular school term divided by the average daily attendance of full-time pupils (or full-time equivalency of pupils) during the term. See also Current Expenditures and Average Daily Attendance.
- Current Expenditures Per Pupil in ADA (Summer School Term)—Current expenditures for the summer school term divided by the full-time equivalency of pupils in average daily attendance during the term. See also Current Expenditures and Full-Time Equivalency.
- Current Expenditures Per Pupil in ADM (Regular School Term)—Current expenditures for the regular school term divided by the average daily membership of full-time pupils (or full-time equivalency of pupils) during the term. See also Current Expenditures and Average Daily Membership.
- Current Expenditures Per Pupil in ADM (Summer School Term)—Current expenditures for the summer school term divided by the full-time equivalency of pupils in average daily membership during the term. See also Current Expenditures and Full-Time Equivalency.
- Current Expenditures Per Pupil Per Day (ADA)—Current expenditures per pupil in average daily attendance during a given school term, divided by the number of days school was in session during this term. (Handbook V, clarified) See also Current Expenditures and Average Daily Attendance.
- Current Expenditures Per Pupil Per Day (ADM)—Current expenditures per pupil in average daily membership during a given school term, divided by the number of days school was in session during this term. (Handbook V, clarified) See also Current Expenditures and Average Daily Membership.



- Current Expenditures Per Pupil Per Hour Course Meets (Adult Éducation)—Current expenditures for adult education (for a given period of time) divided by aggregated pupil hours. Aggregated pupil hours refers to the total, for all courses, of the enrollment for each course times the number of hours the course meets. (NOTE: This item may be used in any situation where there is a significant proportion of part-time pupils.) See also Current Expenditures.
- Curriculum Guide—A written plan including one or more aspects of curriculum and instruction such as philosophy, policies, aims, objectives, subject matter, resources, and processes. Such a plan may be as narrow in scope as a unit or topic of instruction, or as broad as the entire curriculum of a school system or level of instruction within a State. See also Course of Study.
- Custodial Mentally Retarded—See Severely Mentally Retarded, page 82.
- Cycle Scheduling—A scheduling plan, usually in junior high schools, wherein courses which might be taught one or two periods each week throughout the term are taught every day for a succession of weeks. For example, art, music, and industrial arts might be "cycled" in a 36-week term for 12 weeks each.
- Degree—A title conferred by a college or university as official recognition for the completion of a program of studies or for other attainment. (IV) (V)
- Delinquent Behavior—Behavior of a juvenile which is habitually wayward, disobedient, truant, or of such a nature as to impair or endanger the morals or health of self or others. If a juvenile violates a law or ordinance and is convicted in a court of law as a juvenile, he sometimes is considered a juvenile delinquent, depending on the severity of the violation; for repeated convictions of lesser offenses, he usually is considered a juvenile delinquent. Some jurisdictions use a term other than "conviction" in juvenile cases. (V) See also Juvenile Delinquent.
- Department—As used in this handbook, an administrative subdivision of a school with a teaching staff responsible for instruction in a particular subject-matter area or field of study, (e.g., English department, vocational department, science department, music department). (Handbooks IV and V, clarified)
- Departmentalized Organization—The organization of instruction in such a way that teachers specialize in one or two subject-matter areas and give instruction in these areas to several classes. Under the departmentalized organization, pupils or teachers move from room to room for different classes during the school day. (Handbooks IV and V, clarified)
- Diagnostic Teacher—A teacher possessing special training and skills in diagnosing learning problems of individuals and in planning and providing therapeutic educational programs based on such diagnoses.
- Differentiation—A plan making provision for individualized needs of the various pupils by enrichment or other modification of a common basic program.
- Discipline—A broad, logically organized body of subject matter which is distinguished by its scholarly prestige.
- Dual Enrollment—An arrangement whereby a pupil regularly and concurrently attends two schools which share direction and control of his studies. For example, the pupil attends a public school part-time and a nonpublic school part-time, pursuing part of his elementary or secondary studies under the direction and control of the public school and the remaining part under the direction and control of the nonpublic school; or, he attends a public secondary school part-time and an area vocational school part-time with the direction and control of his studies similarly shared by the two institutions.

- Early Childhood Education—Educational experiences provided by the school at the preprimary and primary levels.
- Elementary Instructional Level—The general level of instruction provided for pupils in elementary schools, and any instruction of a comparable nature and difficulty provided for adults and youth beyond the age of compulsory school attendance. (IV) (V)
- Emotional Handicap—An impairment or deficiency of the emotions that adversely affects the stability and/or performance of an individual. (V)
- Enrichment Program—Supplementary instructional experiences provided pupils according to their special needs, abilities, and interest. For preschool or preprimary culturally deprived children, this refers to experiences designed to aid in their transition from home to a school environment; emphasis is on language development in preparation for reading instruction; and, frequently, such programs are supplemented by counseling with parents and with home visits by school staff members. For other pupils, such as the gifted, talented, or college bound, this term refers to special instructional experiences provided in addition to instruction generally provided most pupils.
- Equipment—Any instrument, machine, apparatus, or set of articles which (a) retains its original shape and appearance with use and (b) is nonexpendable; i.e., if the article is damaged or some of its parts are lost or worn out, it is usually more feasible to repair it than to replace it with an entirely new unit. (Handbooks II and III, modified, based on the wording of P.L. 89-329.) See also page 9.
- Exceptional Children—As used in this handbook, children who, because of certain atypical characteristics, have been identified by professionally qualified personnel as requiring special educational planning and services, whether or not such services are available. In general, the term "exceptional children" considers exceptionality on the basis of (a) physical handicap, (b) emotional and/or social handicap, and (c) measurable exceptionality in mental ability, i.e., mentally gifted and mentally retarded. Some exceptional children have more than one type of exceptionality. (Handbooks I and III, modified) (V)
- Exceptional Pupils—Exceptional children, and adults identified as exceptional, receiving instruction in a program of special education. (V) See also Exceptional Children and Special Education.
- Exceptionality—As used in this handbook, a physical, mental, or behavioral characteristic by which technically or professionally qualified personnel identify individuals as significantly deviant in terms of their age group. (V) See also Exceptional Children.
- Excess Membership in Public Schools—Membership in excess of the normal pupil capacity of accessible publicly owned school plants in use. This includes any public school pupils housed in nonpublicly owned quarters or makeshift or improvised facilities as well as those who are in excess of the normal capacity in permanent publicly owned school plants. (Based on Handbook I) (V)
- Extended-Day Sessions—A school day with separate times for different groups of pupils to start and end their sessions in the same school plant; e.g., high school juniors and seniors begin their session at 7:30 a.m. and the freshmen and sophomores begin their session at 8:30 a.m., the session for juniors and seniors ending one hour prior to the time the session ends for the freshmen and sophomores. (V)
- Extended School Day—The part of the calendar day, following the daily session, when school-related activities and recreation are provided pupils by the school.
- Extended Secondary School—See Community College.
- Extension Work—Generally, instructional activities other than those connected with the instruction of pupils on the campus. Extension work includes correspondence study,

classes for part-time pupils off the campus or at unusual hours on the campus, and similar instructional arrangements.

- Extraclass Activities—See description of Cocurricular Activities on pages 47 and 242.
- Fee—A payment, charge, or compensation for services (other than instruction), for privileges, or for the use of equipment, books, or other goods.
- Final Mark—A mark, given to a pupil upon the completion of study in a course or subject-matter area of a self-contained class, which represents an evaluation of the work done for the entire course or area and is entered upon the permanent records of the pupil. (Handbook V, expanded) See also Mark.
- Flexible Scheduling—An organization for instruction allowing for varying class sizes within and among courses, and providing for instructional groups which meet at varying frequencies and for varying lengths of time.
- Followup Study—A study made of the experiences or status of former pupils, either for the purpose of assisting them in further adjustment or for securing information to help improve instruction or guidance for those still in school. In vocational education, this term refers to a research activity designed to determine what occupations are pursued by graduates and/or other former pupils in occupational programs, and how effective was their preparation in relationship to job requirements.
- Forum—A public meeting at which topics are discussed by leaders and the audience. (V)
- Full-time Equivalency—The amount of time spent or required in a less than full-time activity divided by the amount of time normally spent or required in a corresponding full-time activity during the regular school term. Full-time equivalency usually is expressed as a decimal fraction to the nearest tenth.
- Full-time Pupil—A pupil who is carrying a full course load as determined by the State or the local school system. (V)
- Gainful Employment—Employment in a recognized occupation for which persons normally receive a wage, salary, fee, or profit.
- Graded School—A school composed of separate standard grades or combinations of grades which serve as the basis for assigning pupils to classes.
- Half-day Session—A school session which contains the minimum number of hours recommended by many State education agencies for kindergarten or prekindergarten instruction, when the length of this session approximates half the number of hours recommended for a full-day session in other elementary grades. Kindergarten and prekindergarten pupils attending a half-day session are in membership for the full day. However, for purposes of obtaining statistical comparability only, pupil-staff ratios involving these pupils are computed as though these pupils were in membership for a half day. (Handbook V, clarified)
- Handicap—An atypical physical, mental, or behavioral condition that adversely affects the performance of an individual. (V)
- Higher Education—Education above the level of the secondary school, usually beginning with grade 13, which is provided by colleges, universities, graduate schools, professional schools, and technical institutes.
- High School Postgraduate—A pupil who, after graduating from high school (grade 12), enters a secondary school for additional school work. (IV) (V)

- Homebound Instruction—See Instruction for Homebound Pupil.
- Homebound Pupil—A pupil who is unable to attend classes and for whom instruction is provided at home by a teacher.

 (V) See also Instruction for Homebound Pupil.
- Homework—School assignments—in preparation for a given course or subject-matter area—to be completed within a specified time limit and during nonclass time.
- Hospital Instruction—Instruction provided in a hospital, sanitorium, or convalescent home. (\mathbf{V})
- Humanities—Subject matter—which may embrace literature, languages, history, music, art, and philosophy (or any combination of these)—planned to acquaint man with his origins and neighbors, including the thoughts, creations, and actions of his predecessors through the ages. The humanities are a record of what man over the centuries has felt, thought, and done in his search for answers to questions about human concerns such as personal identity, origins, meaning of life, and destiny.
- Incomplete High School—A secondary school which offers less than four full years of work beyond grade 8 in a school system that is organized in such a manner that grades PreK, K, or 1 through 8 constitute the elementary grades. These are sometimes called "truncated high schools." (Handbooks I, II, III, IV, and V, clarified)
- Individual Instruction—An arrangement whereby a pupil receives instruction as an individual and not as a part of a class. (V)
- In-school Instruction—Instruction received by a pupil within the school plant. (V)
- Instruction for Homebound Pupil—Individual instruction by a teacher, usually at the home of a pupil who is unable to attend classes. In some instances, such instruction is augmented by telephone communication between the classroom and the pupil or by other means. (V) (Handbook IV, extended)
- Instructional Level—An indication of the general nature and difficulty of instruction, e.g., elementary instructional level, secondary instructional level, and postsecondary instructional level. (V)
- Instructional Materials Center—An instructional space where school library services and audiovisual services are integrated. When such services are limited to one or more specific subject areas, the space may be referred to as a "resource center." For inventory purposes, an instructional materials center is considered to be a school library instructional space as identified under item X3520.31 on page 98. See also Resource Center.
- Integration—The process of combining subject-matter content from various subject-matter areas into one unified course, project, or unit, e.g., interrelating the teaching of history, geography, science, art, music, and English language arts in the study of the Westward Movement.
- Intermediate Administrative Unit—An administrative unit smaller than the State which exists primarily to provide consultative, advisory, administrative, or statistical services to local basic administrative units, or to exercise certain regulatory and inspectoral functions over local basic administrative units. An intermediate unit may operate schools and contract for school services, but it does not exist primarily to render such services. Such units may or may not have taxing and bonding authority. Where there is a supervisory union board, the union is included as an intermediate unit. (Handbooks I and II, clarified) (IV)
- Intermediate Elementary Grades—The grades between the primary grades and the upper elementary grades or the junior high school grades, usually grades 4, 5, and 6. (IV) (V)



- Interscholastic Athletics—Organized games and athletic activities engaged in by pupils specifically trained for such purposes with similarly trained pupils from other schools. (FASA, clarified)
- Intramural Athletics—Organized games and athletic activities engaged in by pupils of a school with other pupils from the same school. The intramural program may be an integral part of the physical education program or a distinctive program of its own; in either case, the program must be confined to a single school. (FASA)
- Item of Information—As used in this handbook, a descriptive heading under which is recorded information about curriculum and instruction.
- Juvenile Delinquent—An offender against the laws of society who, because of his age, is not considered a criminal. While the term "juvenile delinquent" often is applied to all youthful offenders tried in juvenile court, these children technically are not legally delinquent until adjudged so by the court. (V) See also Delinquent Behavior.
- Kindergarten—A group or class organized to provide educational experiences, for children during the year or years immediately preceding the first grade, which are a part of the elementary school program and are under the direction of a professionally qualified teacher. A kindergarten class may be organized as a grade of an elementary school. In some school systems, such a group is called "preprimary" or "junior primary." (Handbooks IV and V, modified)
- Laboratory, Model, or Practice School—An elementary or secondary school in which part or all of the teaching staff consists of cadet or student teachers and the control and operation of the school rests with an institution which prepares teachers. (Handbook I, clarified) (V)
- Language Handicap—As used in this handbook, language usage which deviates from that of the school setting to the extent that it interferes with communication. Such deviation may occur in the reception and production as well as in the meaningful use of speech sounds, vocabulary, and/or rules of word order of the linguistic system of the school. A person who correctly speaks a foreign language or a dialect is not considered to have a language handicap where the foreign language or dialect is used. However, a pupil lacking competence in the language of instruction is considered to have a language handicap in the school setting. See also Speech Handicap and item X0945.20 on page 81, Inability to Speak Language of Instruction.
- Language Laboratory—A room equipped for language instruction in which tape recorders, projectors, record players, and other devices are used singly or in combination.
- Lay Readers—Persons, usually housewives who are college graduates, who are not teachers but who read and help mark English compositions on a part-time basis under the supervision of a fully qualified classroom teacher.
- Learning Resources Center—See Instructional Materials Center.
- Level of Performance—A predetermined level or stage of performance, or degree of proficiency, as designated by a school or school system.
- Library Books Per Pupil—The number of volumes of library books in the library(s) of a school or school system divided by a pupil unit of measure. See also Pupil Unit of Measure.
- Local Basic Administrative Unit—An administrative unit at the local level which exists primarily to operate public schools or to contract for public school services. Normally, taxes can be levied by such units for school purposes. These units may or may not be coterminous with county, city, or town boundaries. This term is used synonymously with

- the terms "school district" and "local education agency." (Handbooks I, II, and III, clarified; Handbooks IV and V, clarified)
- Local Education Agency—A term used synonomously with the term "local basic administrative unit." See Local Basic Administrative Unit.
- Mark—A rating of achievement or academic progress assigned on the basis of some predetermined scale; e.g., letters (A, B, C, D, F), numbers (4, 3, 2, 1, 0), words or phrases (outstanding, satisfactory, needs improvement), and percentages. (V)
- Measure—A unit of measurement to which reference may be made for purposes of description, comparison, and evaluation. Many measures are obtained by computation involving one or more items of information. (IV) (V)
- Median Age of Pupils—For a given group of pupils, the age that evenly divides the distribution of pupils when classified by age, i.e., the age so selected that 50 percent of the total number of pupils is older and 50 percent is younger. (V)
- Mental Handicap—An impairment in learning potential that adversely affects the performance of an individual. (V) See also Mental Retardation.
- Mentally Deficient-See Mentally Retarded, page 82.
- Migrant Worker—An individual whose primary employment is on a seasonal or other temporary basis and who establishes a temporary residence, with or without his family, for the purpose of such employment. (V)
- Mobile Classroom—A vehicle which serves as a classroom and which may be moved readily at any time. (III) See also Vehicle.
- Model—A scale replica or representation of reality. The scale may be miniature, exact size, or enlargement, and the model itself may or may not be manipulative.
- Model School—See Laboratory, Model, or Practice School.
- Moderately Mentally Retarded—See Educable Mentally Retarded, page 82.
- Multigrade Class—A class composed of pupils in 2 or more grades and having no particular differences in learning experiences due to grade standing of pupils, e.g., a secondary school general science class for freshmen and sophomores. See also Multigraded Class and Ungraded Class.
- Multigraded Class—A class including more than one grade and in which pupils may be identified by grade level, e.g., the single class of a one-teacher school or one-room elementary school. See also Multigrade Class and Ungraded Class.
- Multiple-Car Range—A special off-street facility for in-car laboratory instruction where several automobiles may operate simultaneously under the direction of one or more teachers positioned outside the vehicles.
- Neighborhood School—A school within easy walking distance of the pupils' homes.
- Noncourse Activities—See description of Cocurricular Activities on pages 47 and 242.
- Noncredit Course—A course for which pupils do not receive credit applicable toward graduation or completion of a program of studies. (V, edited)
- Non-English Speaking—A term referring to pupils who do not speak English or who do not hear English spoken in their residence.
- Nongraded Class-See Ungraded Class.
- Nongraded School-See Ungraded School.



- Nursery School—A separately organized and administered elementary school, for groups of children during the year or years preceding kindergarten, which provides educational experiences under the direction of professionally qualified teachers. (Handbooks I, II, and III, modified; Handbook IV, modified)
- Occupational Field—A group of recognized occupations having many similarities, including the following characteristics in common: the type of work performed; the basic aptitudes, and the acquired knowledge and training required; the tools, machines, instruments, and other equipment used; and the basic materials used.
- One-teacher School—A school in which one teacher is employed to teach all grades authorized in the school, regardless of the number of rooms in the building. There are two classifications of one-teacher schools used in Handbook I:

 (a) those with four or less grades, and (b) those with five or more grades. During some years, there may be grades in which no pupils are enrolled. (Handbook I, clarified)
- On-the-job-Training—A program of instruction provided to an employed worker by the employer during the normal working hours of the occupation.
- Outdoor Education—A means of curriculum enrichment that is experienced in and through the outdoors. In achieving this means of enrichment, instruction is adapted largely to the utilization of resources and activities unique or more appropriate to the outdoor setting, where pupils, instructors, and others may stay for several days.
- Part-time General Continuation Class—In vocational education, a class for persons under 18 who have terminated their full-time education in elementary or secondary school to enter upon employment. Such a class is designed to increase civic intelligence rather than to develop specific occupational competence and is conducted during what would be the usual working hours of the enrollees.
- Part-time Pupil—A pupil who is carrying less than a full-course load as determined by the State or the local school system. (V)
- Percentage of Attendance—The average daily attendance during a given reporting period divided by the average daily membership for the period, expressed as a percentage; or, the aggregate days attendance divided by the aggregate days membership, expressed as a percentage. (V)
- Percentage of Exceptional Children in Special Classes or Schools—The number of resident exceptional children entered in special classes or schools, divided by the total number of resident children identified as exceptional, expressed as a percentage. (V)
- Percentage of High School Graduates Who Completed Courses in Given Subject Areas—The number of pupils in a given high school graduation group who completed courses in each of a number of specific subject-matter areas, divided by the total number of pupils in the group, expressed as a percentage. (Handbook V, Clarified)
- Percentage of Pupils Currently Enrolled in Courses in Given Subject Areas—The number of pupils in a given school group who are enrolled in courses in each of a number of specific subject-matter areas, divided by the total number of pupils in the group, expressed as a percentage. (Handbook V, modified)
- Percentage of Pupils in Nonpublic Schools—The number of pupils of a given age group or type of instructional organization entered in nonpublic schools, divided by the total number of pupils in this age group or type of instructional organization entered in all schools, expressed as a percentage. (V)
- Percentage of Pupils Making Normal Progress—The number of pupils making normal progress during a given

- reporting period, divided by the membership at the close of the period, expressed as a percentage. (V)
- Percentage of Pupils Not Promoted (or Retained)—The number of pupils who, at the close of a given reporting period (usually a regular school term), are reassigned to the same grade, divided by the membership at the close of the period, expressed as a percentage. Pupils in ungraded classes are not considered "not promoted" unless (and until) they are asked to spend more than the usual amount of time in such classes. (V)
- Percentage of Pupils Participating in Various Activities

 —The number of pupils who, during a given reporting period (e.g., a given regular school term), take part in each of a number of specific activities, divided by the average daily membership of pupils in the group, expressed as a percentage. (V)
- Percentage of Pupils Promoted—The number of pupils promoted during or at the close of a given reporting period (usually a regular school term), divided by the membership at the close of the period, expressed as a percentage. For reporting purposes, pupils in ungraded classes who have made satisfactory progress may be considered separately or they may be considered promoted. (V)
- Percentage of Total Excess Public School Membership— Total excess membership in public schools divided by the normal pupil capacity of accessible publicly owned school plants in use, expressed as a percentage. (V) See also Excess Membership in Public Schools and Pupil Capacity of a School Plant.
- Percentage of Total Membership Being Provided Appropriate Special Education—The number of pupils who have been identified as exceptional by professionally qualified personnel and who are being provided appropriate special education, divided by the total membership, expressed as a percentage. These pupils may be considered also in smaller groups according to type of exceptionality, e.g., blind, deaf, mentally retarded, etc. (V)
- Permanent Building—A building designed for and constructed on its site and not intended to be moved. (III)
- Physical Handicap—An atypical physical condition that adversely affects the performance of an individual. Individuals with marked physical handicaps may be classified into groups such as: the blind, the partially seeing, the deaf, the hard of hearing, the speech impaired, the crippled, and those having special physical health problems resulting from various diseases and conditions. (V)
- Portable Building—A building designed and constructed so that it can be disassembled and transported to another location, or transported to another location without disassembling. See also Mobile Classroom.
- Post High School Level—See Postsecondary Instructional Level.
- Postsecondary Instructional Level—The general level of instruction provided for pupils in college programs, usually beginning with grade 13, and any instruction of a comparable nature and difficulty provided for adults and youth beyond the age of compulsory school attendance. (Handbooks IV and V, clarified)
- Prekindergarten Class—A group or class organized to provide educational experiences, for children during the year or years preceding the kindergarten, which are a part of the elementary school program and are under the direction of a professionally qualified teacher. A prekindergarten class may be organized as a grade of an elementary school or as a part of a separate nursery school. (This is a modification of the definition for Nursery in Handbooks IV and V)
- Preprimary School—A separately organized and administered elementary school for pupils in the year or years preceding the first grade. This may include pupils in the prekindergarten and kindergarten years or grades.



- Prerequisite—A course (completed successfully) or other requirement which is necessary as a preliminary to participation in a given activity or succeeding course.
- Prevocational Education—Orientation—to a number of different occupational areas—and counseling designed to assist a person in determining the occupational area(s) for which he might best prepare.
- Primary Grades—The elementary grades preceding the intermediate grades, usually grades 1, 2, and 3. (IV) (V)
- Primary School—A separately organized and administered elementary school for pupils at the primary level, usually including grade 1 through grade 3 or the equivalent, and sometimes including preprimary years.
- Principle—A comprehensive generalization describing some fundamental process, constant mode of behavior, or property relating to natural phenomena.
- Private or Nonpublic School—A school established by an agency other than the State, subdivisions of the State, or the Federal Government, or established by an individual, which usually is supported primarily by other than public funds, and the operation of whose program rests with other than publicly elected or appointed officials. (Handbooks I and II, modified; Handbooks IV and V modified)
- Professional Educational Staff Per 1,000 Pupils in Average Daily Membership—The number representing the total full-time equivalency of professional educational assignments in a school system during a given period of time, multiplied by 1,000 and divided by the average daily membership of pupils during this period. (IV) (V)
- Public School—A school operated by publicly elected or appointed school officials in which the program and activities are under the control of these officials and which is supported primarily by public funds. (Handbooks I, II, III, IV, and V, clarified)
- Pupil Capacity of a School Plant—The pupil membership that can be accommodated in the classrooms and other instruction areas of the plant for the school day according to existing State approved standards, exclusive of multiple sessions. (Handbooks III and V, edited) See also Membership in Handbook V and Account 240, Instruction Areas in Building in chapter 2 of Handbook II.
- Pupil Unit of Measure—A standard of measurement having a pupil-related factor as its unit. Illustrative pupil units of measure for a period of time include average daily membership, average daily attendance, and full-time equivalency of average daily membership or attendance; pupil units of measure as of a given date include membership, attendance, and full-time equivalency of attendance. See also Measure.
- Pupil-Classroom Teacher Ratio (As of a Given Date)—
 The number of pupils in membership, as of a given date, divided by the number representing the total full-time equivalency of classroom teaching assignments serving these pupils on the same date. (IV) (V)
- Pupil-Classroom Teacher Ratio (For a Period of Time)

 —The average daily membership of pupils, for a given period of time, divided by the number representing the total full-time equivalency of classroom teaching assignments serving these pupils during the same period. (V)
- Pupil-Counselor Ratio (As of a Given Date)—The number of pupils in membership, as of a given date, divided by the number representing the total full-time equivalency of counseling assignments serving these pupils on the same date. (IV) (V)
- Pupil Counselor Ratio (For a Period of Time)—The average daily membership of pupils, for a given period of time, divided by the number representing the total full-time equivalency of counseling assignments serving these pupils during the same period. (V)

- Pupil-Nurse Ratio (As of a Given Date)—The number of pupils in membership, as of a given date, divided by the number representing the total full-time equivalency of nurse assignments serving these pupils on the same date.
- Pupil-Nurse Ratio (For a Period of Time)—The average daily membership of pupils, for a given period of time, divided by the number representing the total full-time equivalency of nurse assignments serving these pupils during the same period.
- Pupil-Principal Ratio (As of a Given Date)—The number of pupils in membership, as of a given date, divided by the number representing the total full-time equivalency of school direction and management assignments serving these pupils as of the same given date. (IV) (V)
- Pupil-Principal Ratio (For a Period of Time)—The average daily membership of pupils in the elementary and secondary schools of a school system, for a given period of time, divided by the number representing the total full-time equivalency of school direction and management assignments serving these pupils during the same period. (V)
- Pupil-Professional Educational Staff Ratio (As of a Given Date)—The number of pupils in membership in a school system, as of a given date, divided by the number representing the total full-time equivalency of all professional educational staff assignments in the school system on the same date. (IV) (V)
- Pupil-Professional Educational Staff Ratio (For a Period of Time)—The average daily membership of pupils in a school system, for a given period of time, divided by the number representing the total full-time equivalency of all professional educational assignments in the school system during the same period. (V)
- Pupil-School Librarian Ratio (As of a Given Date)—
 The number of pupils in membership, as of a given date, divided by the number representing the total full-time equivalency of all school librarian assignments serving these pupils as of the same given date. (IV) (V)
- Pupil-School Librarian Ratio (For a Period of Time)—
 The average daily membership of pupils, for a given period
 of time, divided by the number representing the total fulltime equivalency of school librarian assignments serving
 these pupils in school libraries during the same period. (V)
- Pupil-Teacher Ratio (As of a Given Date)—The number of pupils in membership, as of a given date, divided by the number representing the total full-time equivalency of all teaching assignments serving these pupils on the same date. (IV) (V)
- Pupil-Teacher Ratio (For a Period of Time)—The average daily membership of pupils, for a given period of time, divided by the number representing the total full-time equivalency of all teaching assignments serving these pupils during the same period. (V)
- Pupil-Total Staff Ratio (As of a Given Date)—The number of pupils in membership, as of a given date, divided by the number representing the total full-time equivalency of all staff assignments serving these pupils as of the same given date. (IV) (V)
- Pupil-Total Staff Ratio (For a Period of Time)—The average daily membership of pupils in a school system or school, for a given period of time, divided by the number representing the total full-time equivalency of all staff assignments in the school system or school during the same period. (Handbook V, extended)
- Pupils Per Acre—The average daily membership of a school divided by the total number of developed and undeveloped acres in the school site. (III) (V)
- Quarter Credit Hour—A unit of value, frequently used in higher education, indicating for a course the number of



hours (or equivalency) of instruction per week for a school term of one quarter. A full-time college student making normal progress earns about 45 to 48 quarter credit hours in the academic year, 3 quarters constituting the work of the usual academic year. Quarter credit hours are converted to semester credit hours on the basis of one quarter credit hour equalling two-thirds of a semester credit hour. (Handbook IV, modified)

- Reading Level—A level of achievement attained by readers, generally defined in terms of stages of reading development or grade placement of reading books, e.g., the reading-readiness level and the second-grade level.
- Record—A collection of information which is prepared by a person, unit, or organization for the use of that same person, unit, or organization. (Handbooks I, II, and III, extended) (IV) (V)
- Refresher and Reorientation Training for Professionals —Under P.L. 87-415 as amended, short intensive courses for unemployed or potentially unemployed professional persons who are not seeking to qualify for initial employment in a professional occupation but who need to develop their particular professional skills or a new skill so as to maintain their present employment or qualify for new employment within their professions.
- Refugee—An alien who (a) fled from a given nation or area because of persecution or fear of persecution on account of race, religion, or political opinion, (b) cannot return thereto because of fear of such persecution, and (c) is in urgent need of assistance for the essentials of life.
- Regular Class—The general type of class in which most pupils receive instruction, including most classes other than those which are composed of exceptional pupils. (V) See also Special Class for Exceptional Pupils.
- Regular 4-year High School—See Four-Year High School, page 60.
- Released Time—An arrangement whereby a school officially and regularly excuses one or more full-time pupils or members of the staff for part of a session.
- Report—A collection of information which is prepared by a person, unit, or organization for the use of some other person, unit, or organization. (Handbooks I, II, and III, modified) (IV) (V)
- Reporting Period—A period of time for which a report is prepared (e.g., a calendar year, school year, regular school term, summer school term, semester, or marking period). (IV) (V)
- Reporting Unit—The organizational unit submitting a report (e.g., a State department of education, an intermediate administrative unit, a local basic administrative unit, or a school). (IV) (V)
- Residential School for Special Education—A residential school providing a program of special education for exceptional pupils. (V) See also School for Exceptional Children.
- Resource Center—An instructional space designed, or adapted, as a place for reading, viewing, listening, and otherwise studying about one or more specific subject-matter areas, and for the custody, circulation, production, and administration of related supplies and equipment for the use of the student body and school staff. For inventory purposes, such a space is considered to be a school library instructional space as identified under item X3520.31 on page 98.
- Resource Unit—A written plan or collection of materials including, for a given segment of instruction, a variety of learning experiences, resources, and evaluation techniques

- from which teachers may select those deemed best suited for each pupil or group of pupils.
- Scheduling Cycle—The period of time over which a unit of a school schedule extends before it is repeated. Traditional schedules usually have a one-day cycle while in more flexible schedules the cycle may extend for several days or weeks before it is repeated.
- School District—A term used synonymously with the term "local basic administrative unit." (II) (III) (IV) (V) See Local Basic Administrative Unit.
- School for Exceptional Children—A special school composed of children who have been identified by professionally qualified personnel as requiring special educational planning and services. (Handbook III, modified) (V) See also Exceptional Children.
- School Holiday—A day on which school is not conducted either because of legal provisions or because of designation by the board of education as a holiday. Since such days are not considered as days in session, the pupils are considered as being neither present nor absent on school holidays. (V)
- School Month—For school recordkeeping purposes, a period frequently construed to comprise 20 school days, or 4 weeks of 5 days each.
- School Plant—The site, buildings, and equipment constituting the physical facilities used by a single school or by two or more schools sharing the use of common facilities.

 (I) (II) (III) (IV) (V)
- School Term—A prescribed span of time when school is open and the pupils are under the guidance and direction of teachers. See also Regular School Term, on page 67, and Summer School Term, on page 67.
- Secondary Instructional Level—The general level of instruction provided for pupils in secondary schools and any instruction of a comparable nature and difficulty provided for adults and youth beyond the age of compulsory school attendance. (Handbooks IV and V, clarified)
- Semester—Half of a regular school term, usually 16 to 18 weeks in duration. (V)
- Semester Credit Hour—A unit of value, frequently used in higher education, indicating for a course the number of hours (or equivalency) of instruction per week for a school term of one semester. A full-time college student making normal progress earns about 30 to 32 semester credit hours in the academic year, 2 semesters constituting the work of the usual academic year. (Handbook IV, modified)
- Sequence—The order of presentation of aspects of the instructional program, as within a grade, a course, or a series of grades or courses.
- Sequential Study—A plan for the logical ordering of the presentation of various aspects of content and learning experiences, whether among a series of schools, among a series of grades or courses, or within a grade or course.
- Shared Facilities—Either public school buildings, sites, or equipment regularly used without rental fee by nonpublic school pupils who are under the immediate supervision and control of nonpublic school officials, or nonpublic school buildings, sites, or equipment regularly used without rental fee by public school pupils who are under the immediate supervision and control of public school officials.
- Shared Services—An arrangement whereby services provided by one school or school system are made available without charge to another school or school system. To illustrate, the health services or school library services of a given public school might be made available without charge to pupils of a neighboring nonpublic school on a set schedule or as required, with persons providing such services being staff members of the public school, regardless of the location at which the services are provided.



Shared Time-See Dual Enrollment.

- Sheltered Workshop—An enterprise, usually nonprofit, providing remunerative employment and/or rehabilitative activity under appropriate supervision and direction for workers having one or more handicapping conditions—physical, mental, or emotional—of such degree that normal competitive employment is unsuitable or unavailable.
- Skills—Abilities acquired by observation, study, or experience in mental and/or physical performance (e.g., proficiency in planning and investigating, operational techniques, comprehension, organization, execution, remembrance, and application of knowledge to acquire a desired result) basic to the mastery of school work or other activity.
- Social Handicap—An abnormality or variation in interpersonal relationships that adversely affects the social adjustment of an individual. (V)
- Socially Maladjusted—Individuals having unusual difficulty in interpersonal relationships. (V) See also Social Handicap.
- Special Class for Exceptional Pupils—A class, composed of exceptional children or of adults identified as exceptional, for whom a program of special education is provided. (Handbook V, clarified) See also Exceptional Children and Special Education.
- Special Education—As used in this handbook, educational provisions which are different from or in addition to those provided in the usual school program and are provided for exceptional pupils by specially qualified personnel. Special education may be provided in special classes on a full-time or part-time basis; outside the school plant in the pupil's home, hospital, a sanatorium, or a convalescent home; or in other appropriate settings. (V) See also Exceptional Pupils and Exceptional Children.
- Special School—See School for Exceptional Children.
- Special Youth Project—Under P.L. 87-415 as amended, a project providing guidance, counseling, testing, basic education, basic work skills, social adjustment, occupational training, or other appropriate instruction or services to meet the needs of youths, 16 years of age or older who because of inadequate educational background and work preparation are unable to qualify for and obtain employment without such training or education.
- Speech Handicap—Speech which deviates from that spoken by others in any given setting to the extent that it calls attention to itself and interferes with communication. This may include deviations in articulation of speech sounds, in voice production, and/or in rhythm and rate of oral expression. A speech handicap may be a component of a language handicap. (Handbook V, modified) See also Language Handicap.
- Spiral Curriculum—A plan of curriculum organization by which pupils repeat the study of an aspect of subject matter in two or three different grades (usually nonconsecutive), each time at a higher level of difficulty.
- Staggered Sessions-See Extended-Day Sessions.
- State Vocational Education Plan (State Plan)—A written description of the State's vocational education programs submitted to and approved by the U.S. Commissioner of Education as a condition for the allotment of Federal funds. It sets forth the State's authority under State law for its administration of such programs and includes the policies to be followed by the State in maintaining, extending, and improving existing vocational education programs, and in developing new programs.
- Student Body Activities—Cocurricular activities for pupils—such as entertainments, publications, and clubs—that are managed or operated by pupils under the guidance or

- supervision of staff members (Handbook II and FASA, modified) (Handbook V, edited) See also Student Organization.
- Student Organization—A group of pupils organized into a single body for the purpose of pursuing common goals and objectives. Such organizations include the various types of clubs and class organizations which, with the approval of appropriate school authorities, are managed and operated by pupils under the guidance or supervision of qualified adults. (FASA, modified) (V) See also Student Body Activities and description of Cocurricular Activities on pages 47 and 242.
- Student Organization, Class or Grade—An organized group of pupils who, by virtue of having completed a designated number of grades or school years, pursue common goals and objectives. Such organizations include the senior, junior, sophomore and freshman classes, and the elementary school grades. They are managed and operated by pupils under the guidance or supervision of appropriate staff members. (FASA, modified) (V)
- Student Organization, Club—An organized group of pupils having as its main objective the furtherance of a common interest. Such organizations include social, hobby, instructional, recreational, athletic, honor, dramatic, musical, and similar clubs and societies which, with the approval of appropriate school authorities, are managed and operated by the pupils under the guidance or supervision of qualified adults. (FASA, modified) (V)
- Subject—As used in this handbook, an organized body of knowledge which may be more comprehensive than a course but is less comprehensive than a subject-matter area. For example, the subject of American history may be one course or it may be comprised of two courses, such as (a) American history up to the Civil War, and (b) American history from the Civil War to the present.
- Subject Matter—A body of facts, understanding, processes, skills, values, and appreciations related to a specific aspect of human activity and experience. Subject matter includes the accumulated knowledge, skills, appreciations, and attitudes comprising the substance of any subject-matter area.
- Subject-Matter Area—A grouping of related subjects or units of subject matter under a heading such as English (language arts), foreign languages, art, music, natural sciences, industrial arts, home economics, agriculture, business, physical education, and trades and industrial occupations. (This is a modification of the definition of Content Area, in Handbooks IV and V.)
- Summer School—See Summer School Term, page 67.
- Supplementary Program—In vocational education, a program offered as supplemental training to persons already employed. See also item X 23 00.19 on page 89, and item X 21 43.21 on page 88.
- Teacher—A staff member performing assigned professional activities in guiding and directing the learning experiences of pupils in an instructional situation. (Handbooks I and II, modified) (IV) (V)
- Teacher Aide—A staff member performing assigned activities of a nonteaching nature which are not classified as professional educational, but which assist a staff member to perform professional educational teaching assignments. (IV)
- Teacher-Instructional Supervisor Ratio—The total of the full-time equivalencies of all teaching assignments, as of a given date, divided by the total of the full-time equivalencies of all assignments for supervision of instruction as of the same date. (Handbook IV, modified)
- Teachers Other Than Classroom Teachers Per 1,000 Pupils in Average Daily Membership—The number representing the total full-time equivalency of teaching



assignments less the number representing the total full-time equivalency of classroom teaching assignments in a school system during a given period of time, multiplied by 1,000 and divided by the average daily membership of pupils during the period. (V)

- Teachers Per 1,000 Pupils in Average Daily Membership
 —The number representing the total full-time equivalency
 of teaching assignments in a school system during a given
 period of time, multiplied by 1,000 and divided by the
 average daily membership of pupils during this period. (V)
- Teaching—The process of helping pupils acquire knowledge, skills, attitudes, and/or appreciations by means of a systematic method of instruction.
- Teaching Machine—A device for presenting programmed instruction. See also Programmed Instruction, page 102.
- Team Teaching—An organization for classroom instruction which involves two or more teachers who are jointly responsible for planning, instructing, and evaluating a given group of pupils at any instructional level or in a selected subject-matter area or combination of subject-matter areas. A teaching team may or may not include assistants.
- Technical High School—See Vocational and/or Technical High School.
- Technical Institute—An institution, or a division of an institution, offering instruction primarily in one or more of the technologies at the postsecondary instructional level. (Handbook V, modified) See also items of information in chapters 5 and 6 under Technical Education, Agriculture, Health Occupations Education, and Office Occupations.
- Telecourse—A full sequence of lessons offered over closedcircuit or broadcast television for credit or for auditing purposes. Telecourse instruction may include written work requirements, reading assignments, and/or examinations.
- Topic of Instruction—An identifiable segment of a unit of instruction. See also Unit of Instruction.
- Training—Under P.L. 87-415 as amended, a planned and systematic sequence of instruction under competent supervision designed to impart predetermined skills, knowledge, or abilities with respect to designated occupational objectives; and, in addition to occupational training, may include, to the extent necessary, adult basic education, prevocational training, refresher and reorientation training for professionals, and such direction and supervision as may be required by an agency or institution to conduct the training.
- Transcript—An official unabridged and certified record of pupil performance showing all schoolwork completed at a given school and the final mark received in each portion of the instruction. Transcripts often include an explanation of the marking scale used by the school. (Handbook V, clarified)
- Tuition—A payment or charge for instruction. (Handbook II modified; Handbook V, modified) See also Fee.
- Type of Exceptionality—A general type of characteristic by which individuals are identified as being exceptional.

 (V) See also Exceptionality.
- Undivided High School—See Five- or Six-Year High School, page 60.

- Ungraded Class—A class which is not organized on the basis of grade and has no standard grade designation. This includes regular classes which have no grade designations, special classes for exceptional pupils which have no grade designations, and many adult education classes. Such a class is likely to contain pupils of different ages who, frequently, are identified according to level of performance in one or more areas of instruction rather than according to grade level or age level. Ungraded classes sometimes are referred to as "nongraded." (Handbooks IV and V, extended) See also Regular Class and Special Class for Exceptional Pupils.
- Ungraded Elementary School—An elementary school which is not organized on a grade basis, but which offers work on the elementary instructional level. (IV) (V)
- Ungraded High School—A secondary school which is not organized on a grade basis, but which offers work on the secondary instructional level. (IV) (V)
- Ungraded Primary Unit—An organization, for all or a portion of the primary years of school, which has no grade designations or grade-level standards. See also Ungraded School.
- Ungraded School—A school which has no grade designations or grade level standards. In such a school pupils are reclassified frequently according to individual progress. Aspects of subject matter taught are designed for the various abilities of individual pupils. Frequently, provision is made for independent study and research by pupils as well as for permissive self-selection of problems and materials. Achievement standards vary with the rate of learning for different pupils and pupil advancement can occur at any time.
- Unit of Instruction—A major subdivision of instruction within a course or within an aspect of subject-matter content provided for a self-contained class or for other pupils. Generally composed of several topics, a unit of instruction includes content and learning experiences developed around a central focus such as a limited scope of subject matter, a central problem, one or more related concepts, one or more related skills, or a combination of these.
- Upper Elementary Grades—The elementary grades following the intermediate elementary grades, usually grades 7 and 8 in an 8-4 organizational pattern. (IV) (V)
- Vehicle—A conveyance used to transport persons or objects, such as automobiles, trucks, buses, station wagons, bookmobiles, wagons, and boats, including trailer-type and other attachments operated from such vehicles. (Handbook III, adapted)
- Visual Handicap—An impairment in vision that adversely affects the performance of an individual. A person identified as having a visual handicap may be referred to as "partially seeing" or "blind," according to the nature and severity of his handicap. (V)
- Vocational and/or Technical High School—A secondary school which is separately organized and administered under a principal for the primary purpose of offering education and training in one or more semiskilled, skilled, or technical occupations. Departments of other types of high schools which offer courses or programs in areas such as agriculture, home economics, office occupations, and other vocational and/or technical areas are not considered as separately organized vocational or technical high schools. (This is a modification of the definition for Vocational or Trade High School in Handbooks I, II, III, IV, and V.)



Appendix—Acknowledgments

Hundreds of individuals were actively involved in developing the content of this handbook. Almost 200 persons served at national and regional conferences as representatives of the 13 organizations cooperating in all aspects of the handbook project. More than 170 persons served as members of ad hoc committees concerned with various subject-matter areas; 53 staff members of the Office of Education served as consultants to these committees. Many other individuals who reviewed handbook materials made their contributions in the form of suggestions channeled through these organizational representatives and committee members. Still others contributed to the handbook in responding to specific

questions.

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While it obviously would be impossible to list here the name of every individual who made an important contribution to the handbook, special acknowledgment should be made to some, including William C. Strasser, Jr., Research Assistant, U.S. Office of Education, for collecting basic background materials comprising the forms, guides, and manuals of the 50 States and over 200 local school systems; Allan R. Lichtenberger, Chief of the Educational Data Standards Branch, Office of Education, in which the project was conducted; Dr. Norman Key and staff members of the National Commission on Safety Education (NEA) for assistance with the Safety and Driver Education subject area; Col. J. L. Kennedy, Col. W. V. Strait, and other staff members of the Office of the Deputy Assistant Secretary of Defense, Reserve Affairs, for assistance with the Junior ROTC subject area; Gerald M. Van Pool and Colburn E. Hooton of the National Association of Secondary School Principals for assistance with Cocurricular Activities; and the executive officers of the organizations acknowledged on pages vii-viii.

The list which follows is limited to persons participating in the national and regional conferences or on the subject-matter area ad hoc committees. Participants in national and regional conferences are listed under the organizations they represented, with conferences identified by designations placed after their names according to the following legend:

(1) Policy Meeting

National Planning Conference

(3) Technical Conference

(4) National Review Conference

(5) Regional Conferences:

(5a) Atlanta, Ga. (5bi) Billings, Mont.

(5bo) Boston, Mass.

(5c) Columbus, Ohio

(5da) Dallas, Tex.

(5dm) Des Moines, Iowa

(5sl) Salt Lake City, Utah

(5sf) San Francisco, Calif.

(5w) Washington, D.C.

(6) National Completion Conference

The listings of ad hoc committees for subjectmatter areas include both committee members and Office of Education staff members serving as consultants.

In most instances, individuals are listed according to their titles and locations at the time they par-

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Billings, Mont. (5hi) (6)

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Council for Exceptional Children

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Dr. Owen B. Kiernan, Executive Secretary beginning 1969

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Red Wing, Minn. (5dm)
Mr. William Medley
Principal
Lawrence High School
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Mr. Arthur L. Mills Principal James Madison High School Dallas, Tex. (5da)

Mr. Harry Salisbury High School Principal Valley City, N. Dak. (5bi)

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DR. HAROLD V. WEBB, Executive Director

Dr. Barnard Joy Former member, NSBA Board of Directors Arlington, Va. (1) (2)

Mr. R. Winfield Smith, President National School Boards Association Pennsburgh, Pa. (4) (6)

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Dr. Fred K. Bellott MSEIP Instructional Program Supervisor State Department of Public Instruction Des Moines, Iowa (5dm)

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Mr. Louis P. Hestres Chairman, Board of Education of the Virgin Islands St. Thomas, V. I. $(5\mathrm{w})$

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Mrs. Virginia B. Warren
Director of Publications and Promotion
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Dr. Charles E. Weaver
Supervisor, Guidance Services
State Department of Education
Columbus, Ohio (5c)
Mr. Paul Wills

Director, Administrative Services State Department of Education Atlanta, Ga. (5a)

Mr. William B. Wolfe Chief, School Finance Field Service Section State Department of Education

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Mr. Felix J. Zollo, Jr.
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Mr. W. W. Dick

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Mr. Mario F. George Administrative Officer Region IX San Francisco, Calif.

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Dr. Harold Haswell Director Educational Research, Region VII Dallas, Tex.

Mr. Arnold A. Heyl Director, Division of Data Sources and Standards

Mr. Quentin M. Hill Specialist, Educational Records and Reports

Mr. Warren A. Hughes Specialist, Educational Accounting

Mr. Allan R. Lichtenberger Chief, Educational Data Standards Branch

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Mr. Ivan N. Seibert Educational Program Specialist

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Mr. John Thorslav Contracting Officer Region IX San Francisco, Calif.

Mr. Emanuel Weinstein Occupations Analyst Division of Vocational and Technical Education

Ad Hoc Committees

Persons who presided as chairmen during committee conferences are identified by (c). Persons who served as continuing/corresponding chairmen following committee conferences are identified by (cc).

The membership of ad hoc committees included no Office

The membership of *ad hoc* committees included no Office of Education personnel. However, selected individuals from the Office of Education—identified by an asterisk (*)—served in advisory/consultative capacities; others who participated are also listed.

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Mr. William J. Van Cleve

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Senior Program Officer Facilities and Equipment Programs Division of Vocational and Technical Education

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Recreation and Youth Services Planning Council Los Angeles, Calif. Dr. Wallace Wesley Assistant Director Department of Health Education American Medical Association Chicago, Ill.

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State Supervisor, Home Economics Education State Department of Education

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Educators, public officials, and members of the general public have been expressing increased interest in the appraisal and evaluation of education throughout the United States. To be most meaningful, such appraisal and evaluation require that items of information reported from the various local school systems, States, and regions be comparable. The universal use of this handbook—and of the other handbooks in the State Educational Records and Reports Series—will give major assistance to making such comparability a reality.

This handbook identifies and defines or describes those items of information about curriculum and instruction which should be available on a comparable basis throughout the United States. It provides some guidelines for developing information systems based upon these items. The publication of this or any other handbook, however, does not by itself ensure comparability or standardization of information about curriculum and instruction. Only when most or all of the local and State school systemsand the U.S. Office of Education-use the handbook as a basis for records and reports about instructional programs will information that is truly comparable and combinable be available. Then, there will be significant improvement in the quality and usefulness of information about curriculum and instruction. The use of such information, contributing to enhanced knowledge and more effective decisionmaking, should help make better education possible for pupils throughout the Nation.



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