

DOCUMENT RESUME

ED 192 773

IR 008 852

TITLE Criterion Referenced Inventory. Grade 7 Skill Clusters, Objectives, and Illustrations.
INSTITUTION Montgomery County Public Schools, Rockville, Md.
PUB DATE 80
NOTE 61p.; Some illustrations will not reproduce. For related documents, see IR 008 850-853.
EDRS PRICE MF01/PC03 Plus Postage.
DESCRIPTORS Atlases; *Criterion Referenced Tests; Dictionaries; Elementary Education; Encyclopedias; *Grade 7; Indexes; Library Catalogs; *Library Instruction; *Library Materials; *Library Skills; Reference Materials

ABSTRACT

Part of a series of competency-based test materials for grades six through ten, this test booklet for seventh graders contains multiple-choice questions designed to aid in the evaluation of the pupils' library skills. Accompanied by a separate booklet of illustrations which are to be used in conjunction with the questions, the test covers the following skill clusters: (1) location of resources, (2) understandings about materials, (3) using the card catalog, (4) general reference skills, (5) using dictionaries, (6) using encyclopedias, (7) using almanacs, (8) using atlases, and (9) using newspaper, magazine, and periodical indexes. Objectives for each of the clusters are identified. (FM)

* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *

ED192773

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

THIS DOCUMENT HAS BEEN REPRO-
DUCED EXACTLY AS RECEIVED FROM
THE PERSON OR ORGANIZATION ORIGIN-
ATING IT. POINTS OF VIEW OR OPINIONS
STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF
EDUCATION POSITION OR POLICY

Criterion Referenced Inventory

GRADE

7

Department of Instructional Resources
MONTGOMERY COUNTY PUBLIC SCHOOLS
Rockville, Maryland

"PERMISSION TO REPRODUCE THIS
MATERIAL HAS BEEN GRANTED BY

D. Hymes

DIRECTIONS TO STUDENTS

1. Read each question carefully.
2. Be careful to note any additional directions for the use of illustrations (for example, sample book pages, drawings, cards).
3. Choose the best answer from the four answers given.
4. Mark the best answer on your answer sheet.
5. Do not mark on the test or in the student illustration booklet.

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

TABLE OF CONTENTS

ACKNOWLEDGMENTS	ii
INTRODUCTION	iii
SKILL CLUSTER OBJECTIVES	v
DIRECTIONS TO MEDIA SPECIALISTS	1
INVENTORY	3
ILLUSTRATIONS BOOKLET	

ACKNOWLEDGMENTS

This document was developed during the summer of 1979 by The Media Skills Assessments and Inventories Workshop, Susannah A. Miller, Coordinator. Workshop committee members were Joan Copenspire, Donna Dale, Patricia Lebanik, Rachel Mertz, and Elizabeth Flach, Consultant.

INTRODUCTION

The Criterion Referenced Assessment Banks and the Criterion Referenced Inventories were developed by the Montgomery County Public Schools Department of Instructional Resources as part of a comprehensive program of media skills. These evaluation tools represent one component of a unified media program concept which originated in the 1960's, when a concerted effort was made to transform the traditional school library into a unified media center.

In the late 60's and early 70's, the concept of a unified media program was further developed by interrelating media skills instruction with the overall MCPS curriculum.

In 1971, the Department of Educational Media and Technology, now the Department of Instructional Resources, initiated work on a media skills project a) to teach students the necessary skills to learn effectively through the utilization of media resources and b) to help students become independent users and producers of media.

In 1975, as a continuing effort to improve skills instruction, a Scope and Sequence Chart of Instructional Objectives for Media Research and Communication Skills was developed in draft form; and sample assessment measures were provided as models to be used by media specialists and teachers in developing their own assessment measures. In 1978, this chart was revised and produced as the *Instructional Objectives for Information Retrieval and Media Production*, referred to as the "Blue Book." The document was included in the Multidisciplinary Programs section of the 1979 MCPS *Program of Studies*.

Recognizing the need to help media specialists in the planning and implementation of the *Instructional Objectives for Information Retrieval and Media Production*, the Department of Instructional Resources initiated the development of several supporting components. These included increased assistance to media specialists in planning with teachers; the continuing production of media skills activities; the development of a school-wide annual plan of media instruction; and the production of assessment measures to diagnose students' acquisition of the skills outlined in the "Blue Book." It is the assessment component which ultimately led to the development of the Criterion Referenced Assessment Banks and Criterion Referenced Inventories.

In the summer of 1979, a committee selected by the Department of Instructional Resources developed two diagnostic instruments to be used with students in Grades Six and Nine in determining where additional instruction is apt to be needed by each student for the mastery of media skills by the end of Grades Six and Nine. The committee was guided by the following recommendations:

- Items should be written for those objectives considered essential for students' success in Grades Seven and Ten.
- Materials referred to, or illustrations used in conjunction with the items, should represent those materials which are used by students in meeting instructional objectives identified in the various disciplines included in the *Program of Studies*.
- Vocabulary levels of items should be consistent with the grade levels for which they were intended.

Four needs assessment instruments were developed: two Criterion Referenced Assessment Banks, one each for Grade Six and Grade Nine; and two Criterion Referenced Inventories, one each for students entering Grade Seven and Grade Ten. The Criterion Referenced Inventories contain items based upon objectives selected from the Criterion Referenced Assessment Banks.

Both the Criterion Referenced Assessment Banks (CRABS) and the Criterion Referenced Inventories (CRIS) are criterion-referenced rather than norm-referenced since all items correspond directly to the objectives outlined in the *Instructional Objectives for Information Retrieval and Media Production* "Blue Book."

The CRABS contain items organized into skill clusters as outlined in the "Blue Book." Each cluster in CRAB 6 is bound individually, and the entire set is accompanied by a separate booklet of illustrations necessary for the completion of the assessment items. CRAB 9 is bound in one booklet and is also accompanied by a separate booklet of illustrations.

The CRABS should be administered to students prior to instruction or review in any skill area. The media specialist and the teacher should select the appropriate cluster(s) needed to assess students' mastery and administer those items to the students. Using the results, the media specialist and the teacher will determine student groupings and provide the appropriate instruction.

The CRIS contain items organized into one booklet and accompanied by a separate booklet of illustrations. These inventories are to be administered at the beginning of Grades Seven and Ten to determine which skills the students have already acquired and which skills are in need of reinforcement. It is anticipated that these inventories will serve as a valuable tool for media specialists to use with incoming students. It is strongly recommended that the CRABS and the CRIS be used as outlined in order to provide an effective measure of media skills achievement.

Both the *Instructional Objectives for Information Retrieval and Media Production* and the assessment project represent an ongoing commitment by the Department of Instructional Resources to the development of a unified media program.

This commitment will be further extended to include the following:

- The development of Criterion Referenced Assessment Bank 3 and Criterion Referenced Inventory 4
- The correlation of media skills instructional activities with the CRABS, CRIS, and the *Instructional Objectives for Information Retrieval and Media Production*
- The comprehensive evaluation of the *Instructional Objectives for Information Retrieval and Media Production* and the Criterion Referenced Assessment Banks and Inventories

SKILL CLUSTER OBJECTIVES

	Item	Page
--	------	------

SKILL CLUSTER: LOCATION OF RESOURCES

The student will:

Explain the composition of call numbers for fiction (I.A.3.b.)	1	3
Explain the composition of call numbers for nonfiction (I.A.3.c.)	2	3
Explain the composition of call numbers for nonprint (I.A.3.d.)	3	3

SKILL CLUSTER: UNDERSTANDINGS ABOUT MATERIALS

The student will:

Explain the function of the copyright date (II.B.2.g.)	4	3
Explain the function of the table of contents (II.B.2.o.)	5	4
Explain the function of the index (II.B.2.p.)	6	4
Explain the function of the glossary (II.B.2.r.)	7	4
Explain the function of the bibliography (II.B.2.v.)	8	4
Distinguish between fiction and nonfiction (II.B.6.)	9-10	5
Use the copyright [date] to determine currency of materials (II.B.9.)	11	5
Explain the content of the vertical file (II.B.11.)	12	5

SKILL CLUSTER: CARD CATALOG

The student will:

Use guide letters and guide words (II.C.1.)	13-19	6-7
Explain the purpose of the card catalog (II.C.2.)	20	7
Identify the call number on a catalog card (II.C.3.a.)	21-22	8
Identify the author on a catalog card (II.C.3.b.)	23-25	8-9
Identify the title on a catalog card (II.C.3.c.)	26-28	9

	Item	Page
Identify the subject on a catalog card (II.C.3.d.)	29	9
Identify the editor/compiler on a catalog card (II.C.3.e.)	30	10
Identify the publisher on a catalog card (II.C.3.g.)	31-34	10
Identify the producer on a catalog card (II.C.3.h.)	35	11
Identify the copyright date on a catalog card (II.C.3.i.)	36-39	11
Identify the annotation on a catalog card (II.C.3.m.)	40-41	12
Differentiate between author, title, and subject card (II.C.4.)	42-44	12
Determine whether information given in a particular question is the author, title, or subject (II.C.5.)	45-47	13
Identify subjects related to the one being researched (II.C.7.)	48-50	13-14
Identify various kinds of materials, using the media code above the call number (II.C.9.)	51-54	14-15
Use public library catalogs for children's materials (II.C.12.)	55-64	15-17

SKILL CLUSTER: GENERAL REFERENCE SKILLS

The student will:

Determine the purpose and content of dictionaries (II.D.2.a.)	65	18
Determine the purpose and content of encyclopedias (II.D.2.b.)	66	18
Determine the purpose and content of almanacs (II.D.2.c.)	67	18
Determine the purpose and content of atlases (II.D.2.d.)	68	18
Determine the most appropriate reference for a particular purpose (II.D.3.)	69-74	19-20
Locate information arranged in alphabetical order (II.D.9.a.)	75-76	20

SKILL CLUSTER: DICTIONARIES

The student will:

Use guide words to locate the appropriate page for a given entry word (II.E.2.)	77-79	20-21
---------------------------------------------------------------------------------	-------	-------

	Item	Page
Distinguish between the content of an abridged and an unabridged dictionary (II.E.5.)	80	21
Distinguish between the content of a general and a special dictionary (II.E.6.)	81	21
Interpret information in dictionary entries in an advanced dictionary (II.E.7.d.)	82-84	22

SKILL CLUSTER: ENCYCLOPEDIAS

The student will:

Interpret information in the index entry (II.F.7.)	85-86	22-23
Use cross references such as "See" and "See also" (II.F.13.)	87-88	23
Use study aids at the end of article (II.F.15.)	89-90	23-24
Distinguish between a main heading and a subheading (II.F.14.)	91-92	24

SKILL CLUSTER: ALMANACS

The student will use the index to locate specific information (II.G.3.)	93-95	24-25
-------------------------------------------------------------------------	-------	-------

SKILL CLUSTER: ATLASES

The student will:

Locate and decode symbols used (II.H.1.)	98-101	26
Identify coordinates and page numbers in index (II.H.4.)	96-97	25
Use coordinates to locate a specific place (II.H.5.)	102-104	27

SKILL CLUSTER: NEWSPAPERS, MAGAZINES, AND PERIODICAL INDEXES

The student will:

Use the <i>Subject Guide to Children's Magazines</i> to locate specific articles (II.K.1.a.)	105-109	27-28
Use the <i>National Geographic Index</i> to locate specific articles (II.K.1.b.)	112-116	29-30
Decode symbols and abbreviations in entries (II.K.3.)	110-111	29

DIRECTIONS TO MEDIA SPECIALISTS FOR THE ADMINISTRATION OF THE CRITERION REFERENCED INVENTORY GRADE SEVEN

The Criterion Referenced Inventory is to be administered to students entering the seventh grade. It is designed to assist media specialists in planning instructional units for students who have not yet acquired those skills designated for mastery by Grade Six. The performance objectives covered are those determined to be "key" in terms of students' overall reference skills. These performance objectives were selected from those objectives included in the Criterion Referenced Assessment Bank — Grade Six.

Duplicate the number of answer sheets necessary for those students who will be taking the test.

Give each student an item booklet, an illustration booklet, and an answer sheet. Directions provided in the Inventory booklet will indicate to the student which illustrations are to be used.

A sufficient amount of time should be allowed for students to answer questions at their own pace. Several sessions may be required.

Use the answer key to correct student answer sheets.

CRITERION REFERENCED INVENTORY — GRADE SEVEN

1. What information is given by the call number of a fiction book?
 - a) Type of book and title
 - b) Type of book and author
 - c) Type of book and publisher
 - d) Type of book and producer

2. What information is given by the call number of a **nonfiction** book?
 - a) Copyright and title
 - b) Copyright and author
 - c) Classification and title
 - d) Classification and author

3. What information is given in this call number?

KIT
398
CAR

 - a) Author's name, number of pages, first three letters of the title
 - b) Type of material, Dewey classification number, first three letters of the author's last name
 - c) Author's name, copyright date, first three letters of the title
 - d) Type of material, copyright date, first three letters of the author's last name

4. The copyright date is used to indicate which of the following?
 - a) Date of submission of the book to the publisher
 - b) Date of registration of the book with the proper authorities
 - c) Date of completion of the book by the author
 - d) Date of purchase of the book by the library/media center

5. The table of contents is used to indicate which of the following?
- a) The order of chapter titles and the subjects in the index
 - b) The order of chapter titles and their page numbers
 - c) The order of the illustrations and their illustration numbers
 - d) The order in which the author's previous works appeared in print
6. Which of these would you use to find the page number of a specific subject or person listed in the book?
- a) Appendix
 - b) Foreword
 - c) Bibliography
 - d) Index
7. What part of a book would you use to find an alphabetical listing of words with their definitions?
- a) Index
 - b) Bibliography
 - c) Glossary
 - d) Appendix
8. What part of a book would provide you with a list of references on a subject?
- a) Appendix
 - b) Bibliography
 - c) Preface
 - d) Title page

9. Which of these would probably be found in the **fiction** rather than in the **nonfiction** section?
- a) A collection of short stories about a boy detective
 - b) A series of homemade experiments with water
 - c) The directions for building a doll house
 - d) A collection of poems about animals
10. Which of these would probably be found in the **nonfiction** rather than in the **fiction** section?
- a) A description of a trip in a time machine
 - b) The biography of a 300-year-old woman
 - c) The discovery of a mythical continent
 - d) An astronaut's account of a trip to the moon

TO ANSWER QUESTION 11, USE ILLUSTRATION 1: PAGE SAMPLES.

11. Which sample represents the most recent material?
- a) 1
 - b) 2
 - c) 3
 - d) 4
12. What is the vertical file?
- a) A collection of books written about things that have really happened
 - b) A collection of models, filmstrips, and transparencies on a variety of topics
 - c) A collection of books and magazines written about many different subjects
 - d) A collection of pamphlets, booklets, charts, and pictures about different topics

TO ANSWER QUESTIONS 13 THROUGH 16, USE ILLUSTRATION 2: CARD CATALOG OUTSIDE GUIDES.

13. In which drawer of this card catalog would you find a listing of materials on model railroads?
- a) Ma-Mi
 - b) Mj-Mz
 - c) Q-Re
 - d) Rf-Rz
14. In which drawer of this card catalog would you find a listing of books on the migration of birds?
- a) Ba-Bi
 - b) Bj-Bz
 - c) Ma-Mi
 - d) Mj-Mz
15. In which drawer would you find the name of the author of *The White Mountains*?
- a) Ma-Mi
 - b) Mj-Mz
 - c) T
 - d) W, X, Y, Z
16. In which drawer would you look to find out whether the library had any kits on energy?
- a) D
 - b) E-F
 - c) I, J, K
 - d) L

TO ANSWER QUESTIONS 17 THROUGH 19, USE ILLUSTRATION 3: CARD CATALOG INSIDE GUIDES.

17. Between which two guide cards will you find books about magic?
- a) MACHINES and MAGNETS
 - b) MAGNETS and MAPPING
 - c) MAPPING and MOLECULE
 - d) MOLECULE and MYTHS
18. Before which guide card would you locate books about map making?
- a) MAGNETS
 - b) MAPPING
 - c) MOLECULE
 - d) MACHINES
19. After which guide card would you find the names of books written by Mildred Myrick?
- a) MAGNETS
 - b) MAPPING
 - c) MOLECULE
 - d) MYTHS
20. What is the purpose of the media center card catalog?
- a) To show who has taken materials out of the media center
 - b) To show which materials have been taken out of the media center
 - c) To show all of the materials owned by the media center
 - d) To show materials which are to be used only in the media center

TO ANSWER QUESTIONS 21 THROUGH 44, USE ILLUSTRATION 4: CATALOG CARDS.

21. What is the call number on card 3?

- a) 1972
- b) Kit 917.3 AME
- c) 5fs, 9 prints
- d) 5 phonodiscs

22. What is the call number of card 4?

- a) 1970
- b) 338p.
- c) 11-2
- d) none of the above

23. Who is the author listed on card 1?

- a) Mrs. Frisby
- b) Robert O'Brien
- c) Zena Bernstein
- d) none listed

24. Who is the author listed on card 3?

- a) Foreign Population
- b) Minorities
- c) New Americans
- d) none listed

25. Who is the author listed on card 2?

- a) Vera Foster Rollo
- b) Maryland Historical Press
- c) Geography of Maryland
- d) none of the above

26. What is the title on card 1?

- a) *Mice Stories*
- b) *Rat Stories*
- c) *An Owl's Suggestion*
- d) none of the above

27. What is the title on card 2?

- a) *Maryland*
- b) *Ask Me! About Maryland*
- c) *Maryland Historical Press*
- d) none of the above

28. What is the title on card 4?

- a) *An Anthology of Poems, Limericks and Nonsense Verses*
- b) *The Illustrated Treasury of Poetry for Children*
- c) *About Nature, Music, Animals, Love and Other Topics*
- d) none of the above

29. What is the subject listed on card 2?

- a) Geography
- b) Maryland
- c) Rollo
- d) none of the above

30. Which of the four cards lists a compiler?

- a) 1
- b) 2
- c) 3
- d) 4

31. Who is the publisher listed on card 1?

- a) NIMH
- b) Atheneum
- c) Bernstein
- d) none of the above

32. Who is the publisher listed on card 2?

- a) Rollo Vera Foster
- b) Geography of Maryland
- c) Maryland Historical Press
- d) Ask Me About Maryland

33. Who is the publisher listed on card 3?

- a) Foreign population
- b) Minorities analytics
- c) Black Americans
- d) none of the above

34. Who is the publisher listed on card 4?

- a) Grosset
- b) British
- c) American
- d) none of the above

35. Who is listed as the producer on card 3?
- a) Mexican Americans
 - b) Foreign Population
 - c) Field Educ.
 - d) none of the above
36. When was the material on card 1 copyrighted?
- a) jFic
 - b) 233p.
 - c) 1971
 - d) none of the above
37. When was the material on card 2 copyrighted?
- a) 3-3
 - b) 1917
 - c) 1966
 - d) none of the above
38. When was the material on card 3 copyrighted?
- a) 5fs
 - b) 1917
 - c) 1972
 - d) none of the above
39. When was the material on card 4 copyrighted?
- a) 11-2
 - b) 338p.
 - c) 821.08
 - d) none of the above

40. Which cards have annotations?

- a) 1 and 2
- b) 1 and 3
- c) 1 and 4
- d) none of the above

41. What card mentions an owl?

- a) 1
- b) 2
- c) 3
- d) 4

42. Which card is an author card?

- a) 1
- b) 2
- c) 3
- d) 4

43. Which card is a title card?

- a) 1
- b) 2
- c) 3
- d) 4

44. Which cards are subject cards?

- a) 1 and 2
- b) 1 and 3
- c) 2 and 3
- d) 3 and 4

45. Which of these questions could best be answered by finding a title card in the card catalog?
- a) How many books in the media center are written by Nina Bawden?
 - b) Who is the author of *Bristle Face*?
 - c) How can I take care of a garter snake I just caught?
 - d) Does the media center have any books about archaeology?
46. Which of these questions could best be answered by finding an author card?
- a) Do we have the book *The Summer of the Swans*?
 - b) What is the name of a book written by Jean George?
 - c) Do we have any books about wolves?
 - d) What is the copyright date of *Julie of the Wolves*?
47. Which of these questions could best be answered by finding a subject card?
- a) Do we have any books about dinosaurs?
 - b) Did Herbert Zim write a book about dinosaurs?
 - c) Who is the author of *All About Dinosaurs*?
 - d) Who is the publisher of *Dinosaur Hunt*?

TO ANSWER QUESTIONS 48 THROUGH 50, USE ILLUSTRATION 5: CATALOG CARDS.

48. What topic in sample card 1 is suggested as an additional source of information on atomic energy?
- a) NUCLEAR ENERGY
 - b) NUCLEAR ENGINEERING
 - c) NUCLEAR POWER
 - d) ATOMIC REACTORS

49. Which of these topics in sample card 3 would contain additional information on space vehicles?

- a) space travel
- b) planets — exploration
- c) interplanetary travel
- d) outer space — exploration

50. Which of these topics in sample card 2 is not suggested to find additional information on astronomy?

- a) ECLIPSES
- b) SOLAR SYSTEM
- c) TELESCOPE
- d) TIDES

TO ANSWER QUESTIONS 51 THROUGH 54, USE ILLUSTRATION 6: CATALOG CARDS.

51. What kind of material is represented by card 1?

- a) Chart
- b) Filmstrip
- c) Game
- d) Record

52. What kind of material is represented by card 3?

- a) Filmloop
- b) Kit
- c) Magazine
- d) Record

53. What kind of material is represented by card 2?

- a) Book
- b) Filmloop
- c) Game
- d) Model

54. What kind of material is represented by card 4?

- a) Book
- b) Filmloop
- c) Kit
- d) Model

TO ANSWER QUESTIONS 55 THROUGH 57, USE ILLUSTRATION 7: MONTGOMERY COUNTY PUBLIC LIBRARIES *CHILDREN'S BOOK CATALOG* — AUTHOR SECTION OF *TITLES-AUTHORS*.

55. How many different titles by George MacDonald are listed in this sample?

- a) three
- b) four
- c) five
- d) six

56. What is the call number of *Moon Pictures* by Selve Maas?

- a) J667
- b) J398.2
- c) A1971
- d) J759.06

57. Which of the following titles in the Montgomery County Public Libraries was not written by David Macaulay?

- a) *Cathedral, The Story of Its Construction*
- b) *City, A Story of Roman Planning and Construction*
- c) *Pyramid*
- d) *Noah's Journey*

TO ANSWER QUESTIONS 58 THROUGH 61, USE ILLUSTRATION 8: MONTGOMERY COUNTY PUBLIC LIBRARIES CHILDREN'S BOOK CATALOG — TITLE SECTION OF TITLES-AUTHORS.

58. How many branches of the Montgomery County Public Libraries have copies of *The Grey King*?

- a) fourteen
- b) seventeen
- c) nineteen
- d) none of the above

59. Under what other title will you look to find out what branches have *Grillos y Ranas*?

- a) *Griffin and the Minor Canon*
- b) *Story of Grittir the Strong*
- c) *Grimm's Fairy Tales*
- d) *Crickets and Frogs*

60. What is the call number of *Green Is For Growing*?

- a) J580
- b) J598.13
- c) J821
- d) Fiction

61. In what other form is *Grimm's Fairy Tales* available from the public library?

- a) Record
- b) Cassette
- c) Filmstrip
- d) Filmloop

TO ANSWER QUESTIONS 62 THROUGH 64, USE ILLUSTRATION 9: MONTGOMERY COUNTY PUBLIC LIBRARIES *CHILDREN'S BOOK CATALOG — SUBJECTS*.

62. Under what other topics would you find information about Marine Fauna?

- a) Aquarium
- b) Plankton
- c) Bridges
- d) Oceans

63. How many different books does the Montgomery County Public Libraries have on map making?

- a) one
- b) two
- c) three
- d) four

64. How many branches of the Montgomery County Public Libraries have copies of Erwin Raisz's *Mapping the World*?

- a) fourteen
- b) eighteen
- c) nineteen
- d) twenty

65. Which of these is the correct description of a dictionary?

- a) A book containing words and their meanings, arranged in alphabetical order
- b) A book of articles, arranged in alphabetical order by subject
- c) A book published yearly as a history of a particular group
- d) A book of maps with descriptive text, arranged in alphabetical order

66. Which of these is the correct description of an encyclopedia?

- a) A book containing only names of places, with geographical and historical information and pronunciations, arranged alphabetically
- b) A book containing articles, usually arranged in alphabetical order by subject, on all branches of knowledge
- c) A book with physical, political, and special maps arranged in alphabetical order
- d) A book containing current statistical information, charts, tables, graphs, calendars, and general information

67. Which of these is the correct description of an almanac?

- a) A book of short biographies of famous people, arranged alphabetically by last name
- b) A book containing current statistical information, tables, charts, and general information
- c) A book of maps, including descriptive text, arranged in chronological order
- d) A book published yearly as a report of the activities of a group

68. Which of these is the correct description of an atlas?

- a) A book containing articles, by subject, on all branches of knowledge
- b) A book containing current statistical information, tables, charts, and general information
- c) A book of maps, including descriptive text, arranged in geographical order
- d) A book containing words and their meanings, arranged in alphabetical order

69. Where would you find several definitions for **rune**?
- a) *Goode's World Atlas*
 - b) *Roget's Thesaurus*
 - c) *Current Biographies*
 - d) *Macmillan School Dictionary*
70. Where would you find information about Baltimore, Maryland, including its location, history, and population figures?
- a) *Webster's Geographical Dictionary*
 - b) *Webster's Biographical Dictionary*
 - c) *Webster's Unabridged Dictionary*
 - d) *Webster's Dictionary of Proper Names*
71. Where would you find the correct pronunciation of **Iroquois**?
- a) *American Facts and Dates*
 - b) *American Book of Days*
 - c) *American Heritage Dictionary*
 - d) *American Biographies*
72. What reference source would you use to plan an automobile trip across the United States?
- a) *Rand McNally World Atlas*
 - b) *Rand McNally Atlas of the United States*
 - c) *Webster's Geographical Dictionary*
 - d) *The Look-It-Up Book of the Fifty States*
73. Where would you find information on the life of Harriet Tubman?
- a) *Famous First Facts*
 - b) *Standard Dictionary of Folklore*
 - c) *World Book Encyclopedia*
 - d) *Bartlett's Familiar Quotations*

74. What reference source would you use to chart the locations of the endangered species of the world?
- a) *Information Please Almanac*
 - b) *Webster's Dictionary of Synonyms*
 - c) *World Book Dictionary*
 - d) *Wild Animals of North America*

TO ANSWER QUESTIONS 75 AND 76, USE ILLUSTRATION 10: CASSELL'S SPANISH-ENGLISH DICTIONARY.

75. What word follows directly after **barbaza**?

- a) **barbarote**
- b) **barbear**
- c) **barbechada**
- d) **barbechar**

76. How many words begin with the letters **b a r b a** ?

- a) 7
- b) 14
- c) 21
- d) 28

77. Listed below are guide words from a dictionary. Between which guide words would you find the word **quinine**?

- a) **quarrelsome — quebracho**
- b) **queen — quicklime**
- c) **quickly — quiver**
- d) **quiz — quotient**

78. If the guide words in a dictionary are **Lake Forest — lampoon**, which of these would **not** be found on that page?
- a) **Lake Michigan**
 - b) **Lake Huron**
 - c) **Lake Superior**
 - d) **Lake Erie**
79. If the guide words are **floodgate — flow**, which of these would **not** be found on that page?
- a) **flop**
 - b) **flower**
 - c) **flout**
 - d) **floor**
80. What is the **major** difference between an abridged and an unabridged dictionary?
- a) Size of type
 - b) Subjects covered
 - c) Publication date
 - d) Number of entries
81. What is the **major** difference between a general dictionary and a special dictionary?
- a) Publisher
 - b) Subjects covered
 - c) Number of pages
 - d) Length of entries

TO ANSWER QUESTIONS 82 THROUGH 84, USE ILLUSTRATION 11: *WEBSTER'S NEW STUDENTS DICTIONARY*.

82. What is a synonym for the word **skulk**?
- a) skoal
 - b) skua
 - c) skulker
 - d) slink
83. Which is the correct pronunciation of the word **skull-cap**?
- a) 'skull-kap
 - b) 'skəl-kap
 - c) 'skull-çap
 - d) 'skəl-çap
84. What is a correct definition of the word **skirr** as a verb?
- a) A light bounding step
 - b) The high shrill sound of a bagpipe
 - c) To leave hurriedly
 - d) Any of several small leaping insects

TO ANSWER QUESTIONS 85 THROUGH 88, USE ILLUSTRATION 12: *THE WORLD BOOK ENCYCLOPEDIA RESEARCH GUIDE/INDEX*.

85. How many entries are listed under the topic Solar Furnace?
- a) one
 - b) two
 - c) three
 - d) four

86. In which volumes will you find information on the solar year?
- a) *S* and *Y*
 - b) *T* and *So*
 - c) *C*, *L*, and *Y*
 - d) *So*, *Ci*, and *D*
87. To what other location are you referred by the index for additional information on the solar system?
- a) Bibliography
 - b) Galaxy
 - c) Solar plexus
 - d) Related articles
88. To what other topic are you referred when looking up Solar Battery?
- a) Solar cell
 - b) Solar power
 - c) Solar electricity
 - d) Solar watch

TO ANSWER QUESTIONS 89 AND 90, USE ILLUSTRATION 13: *THE WORLD BOOK ENCYCLOPEDIA*.

89. What article would **not** contain related information about ancient Egypt?
- a) Animal Worship
 - b) Asp
 - c) Scarab
 - d) Temple

90. Which of these biographies would contain additional information about ancient Egypt?
- a) Piankhi
 - b) Ramses II
 - c) Hatshepsut
 - d) Amenemhet III

TO ANSWER QUESTIONS 91 AND 92, USE ILLUSTRATION 14: *THE WORLD BOOK ENCYCLOPEDIA*.

91. Which of these is the **main heading** of this encyclopedia article?
- a) Egypt, Education
 - b) Religion
 - c) The Arts
 - d) Egypt, Ancient
92. Which **subheading** would provide information about ancient Egyptian schools?
- a) The Arts
 - b) Religion
 - c) Education
 - d) Literature

TO ANSWER QUESTIONS 93 THROUGH 95, USE ILLUSTRATION 15: *THE WORLD ALMANAC AND BOOK OF FACTS*.

93. On what page(s) will you find information on Lake McKinley?
- a) 296-303
 - b) 440
 - c) 449
 - d) information not given

94. On what page(s) will you find the origin of the name of Maryland?

- a) 95
- b) 460
- c) 686-687
- d) information not given

95. On which page(s) will you find information on U.S. aid to Mali?

- a) 558, 729
- b) 603
- c) 602
- d) information not given

TO ANSWER QUESTIONS 96 AND 97, USE ILLUSTRATION 16: *GOODE'S WORLD ATLAS*.

96. On what page will you locate a map of Graham, Texas (Tx.)?

- a) 90
- b) 112
- c) 116
- d) information not given

97. What are the coordinates for the North Fork of the Grand River (R)?

- a) 39-50 N 93-52 W
- b) 45-40 N 101-55 W
- c) 45-52 N 102-49 W
- d) information not given

TO ANSWER QUESTIONS 98 THROUGH 101, USE ILLUSTRATION 17: *GOODE'S WORLD ATLAS*.

98. Which of these minerals is not found in the continent shown?
- a) Gold
 - b) Diamonds
 - c) Coal
 - d) Zinc
99. is the symbol for which of these?
- a) Iron ore
 - b) Tin
 - c) Cobalt
 - d) Phosphate rock
100. Most of the northern part of this continent is used for what purpose?
- a) Nomadic herding
 - b) Livestock ranching
 - c) Tropical forest
 - d) Industrial areas
101. What type of information is not presented in this map?
- a) Natural resources
 - b) Agriculture
 - c) Industrial areas
 - d) Population

TO ANSWER QUESTIONS 102 THROUGH 104, USE ILLUSTRATION 18: *HAMMOND WORLD ATLAS*.

102. What are the coordinates of Frostburg?

- a) A1
- b) B2
- c) C2
- d) D1

103. What city is located along 78° longitude?

- a) Cumberland
- b) Martinsburg
- c) Meyersdale
- d) Flintstone

104. What mountain chain has the coordinates A3?

- a) Meadow
- b) Green
- c) Allegheny
- d) Backbone

TO ANSWER QUESTIONS 105 THROUGH 109, USE ILLUSTRATION 19: *SUBJECT INDEX TO CHILDREN'S MAGAZINES (INDEX)*.

105. How many articles are listed under *ECLIPSES*?

- a) one
- b) two
- c) three
- d) four

106. How many articles are about Albert Einstein?

- a) one
- b) two
- c) three
- d) four

107. What other topic should you look under for articles about ancient Egypt?

- a) Middle East
- b) Pyramids
- c) Mummies
- d) The Nile

108. In what issue of *Model Airplane News* would you find "Engine Review Round-up"?

- a) March 1979
- b) March 1978
- c) May 1979
- d) May 1978

109. Under what heading would you locate articles about the energy crisis?

- a) Conservation of Energy
- b) Conservation of Resources
- c) Energy Crunch
- d) Saving Energy

TO ANSWER QUESTIONS 110 AND 111, USE ILLUSTRATION 19: *SUBJECT INDEX TO CHILDREN'S MAGAZINES* (ABBREVIATIONS AND INDEX).

110. In what magazine will you find the article "Birth of the Earth"?

- a) *Science World*
- b) *News Explorer*
- c) *Pictorial Education*
- d) *National Geographic Magazine*

111. In what magazine will you find the article "The Meaning of Dreaming"?

- a) *Children's Digest*
- b) *Child Delight*
- c) *Child Life*
- d) *Children's Playmate*

TO ANSWER QUESTIONS 112 THROUGH 116, USE ILLUSTRATION 20: *NATIONAL GEOGRAPHIC INDEX*.

112. Who is the author of the article on mammals called "Orphans of the Wild"?

- a) Wanda Burnett
- b) Thomas Garner James
- c) Bruce G. Kinloch
- d) no author listed

113. Which article about Mali would be found in the March 1972 issue of the *National Geographic Magazine*?

- a) "Foxes Foretell the Future in Mali's Dogon Country"
- b) "Freedom Speaks French in Ouagadougou"
- c) "The Niger: River of Sorrow, River of Hope"
- d) none of the above

114. Louis Malle was the photographer for which of these articles?
- a) "Calypso Explores for Underwater Oil"
 - b) "The Maligned Coyote"
 - c) "Democracy's Fortress: Unsinkable Malta"
 - d) none of the above
115. What are the contents of the article on mammals called "The Wild Animals in My Life"?
- a) Cloud Rat, Flying Lemur, Tarsier, Tree Shrew
 - b) Animals of the National Zoological Park
 - c) Homo Habilis, Kenyapithecus, Proconsul, Zinjanthropus
 - d) Wildlife of the Everglades National Park
116. In which issue would you find "The Maligned Coyote"?
- a) August 1955
 - b) August 1966
 - c) August 1974
 - d) August 1975

Criterion Referenced Inventory

GRADE

7

ILLUSTRATIONS

Department of Instructional Resources
MONTGOMERY COUNTY PUBLIC SCHOOLS
Rockville, Maryland

Illustration 1. PAGE SAMPLES

Published 1979 by Warwick Press, 730 Fifth Avenue,
New York, New York 10019.

First published in Great Britain by Sampson Low
in 1975.

Copyright © 1975 by Grisewood & Dempsey Ltd.

Printed in Italy by Vallardi Industrie Grafiche, Milan.

6 5 4 3 2 1

All rights reserved

Library of Congress Catalog Card No. 78-70608

ISBN 0-531-09120-1

Sample 1

Published 1978 by Warwick Press, 730 Fifth Avenue,
New York, New York 10019

First published in Great Britain by Sampson Low
in 1977

Copyright © 1977 by Grisewood & Dempsey Ltd

Printed in Great Britain by Purnell and Sons Ltd,
Paulton (Avon) and London

6 5 4 3 2 1

All rights reserved

Library of Congress Catalog Card No. 77-85249

ISBN 0-531-09083-3
ISBN 0-531-09058-2 lib. bdg.

Sample 2

Library of Congress catalog number 73-13423

Copyright © Macmillan Educational Corporation, 1974
also 1967, 1968, 1969,
1970, 1971, 1972, 1973

All rights reserved. No part of this book may be reproduced or transmitted in any form or by
any means, electronic or mechanical, including photocopying, recording, or by any information
storage and retrieval system, without permission in writing from Macmillan Educational
Corporation.

The pronunciation key in this encyclopedia is reprinted from the Thorndike-Barnhart dictionary series
and is used with the permission of Scott, Foresman and Company.

Manufactured in the United States of America.

1
2
3

Sample 3

Copyright © 1978
World Book - Childcraft International, Inc.
Merchandise Mart Plaza, Chicago, Illinois 60654
All rights reserved.
ISBN 0-7166-0579-1
Library of Congress Catalog Card Number: 65:21776
Printed in the United States of America

Sample 4

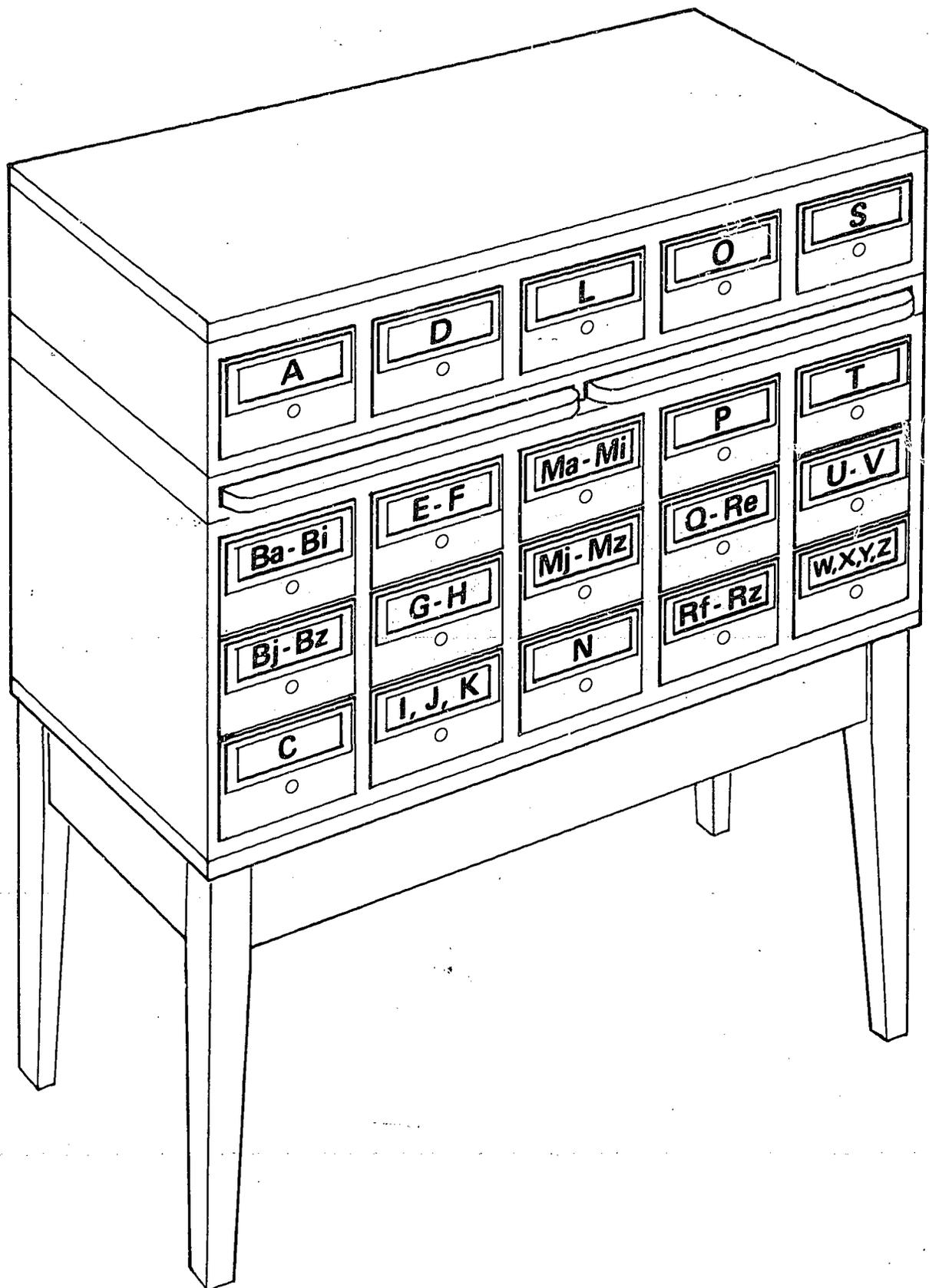


Illustration 3. CARD CATALOG INSIDE GUIDES

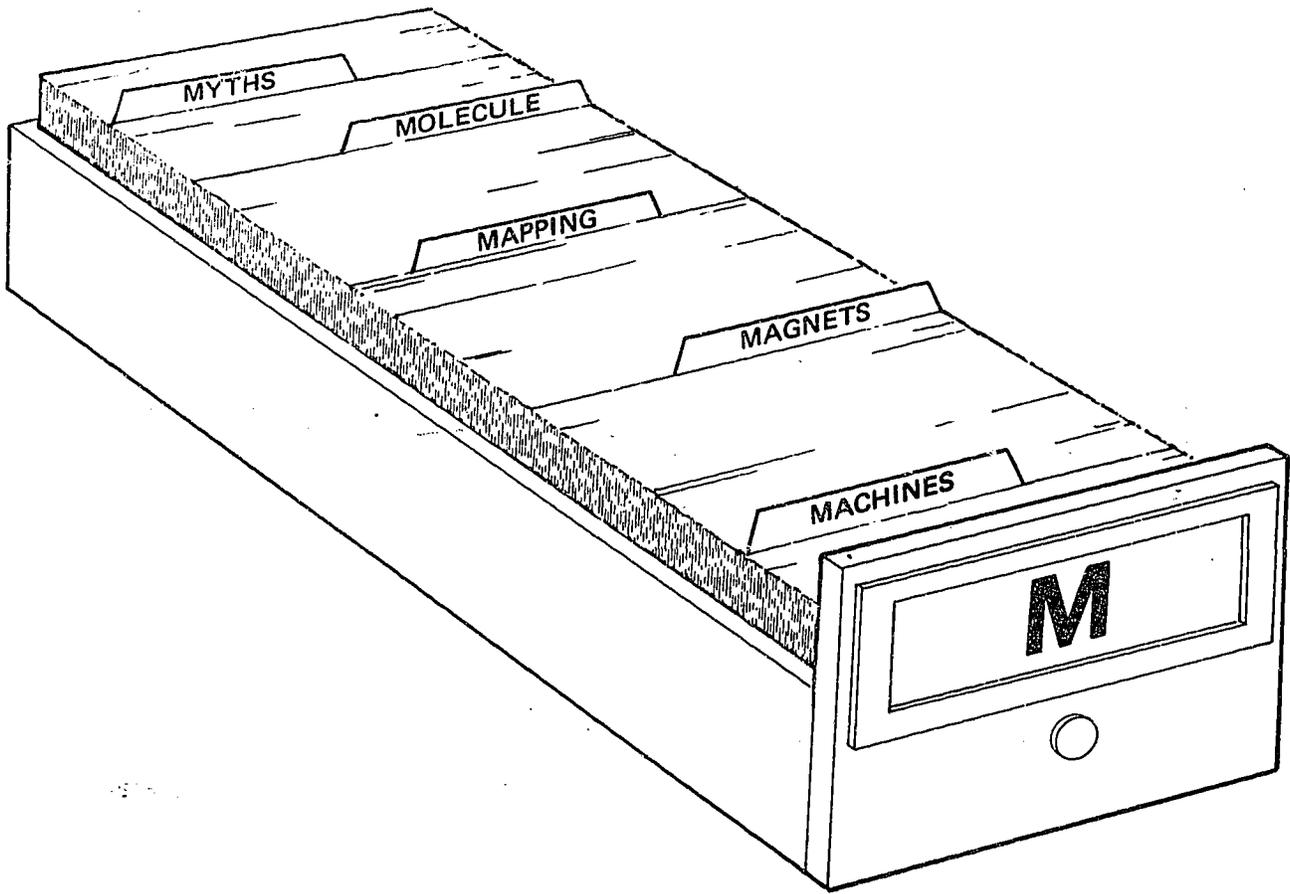


Illustration 4. CATALOG CARDS

F
O

O'Brien, Robert C
Mrs Frisby and the rats of NIMH; illus. by Zena Bernstein. Atheneum 1971
233p illus

Sample Card 1

Mrs Frisby, a recently widowed mouse, faced a serious problem and had no one to turn to for help. At an owl's suggestion, she visited a group of rats known for doing strange things. This story tells of her discovery of the truth about them and also about her dead husband. (Publisher)

1 Mice—Stories 2 Rats—Stories 1 Title jFic

MARYLAND

917.52
ROL

Rollo, Vera Foster
Ask me! About Maryland; a geography of Maryland. Maryland Historical Press 1966
68p.

Sample Card 2

1 Maryland 1 Title

3-3

MINORITIES

Kit
917.3
AME

The American adventure. Field Educ. 1972
5fs., 9 prints, and 5 phonodiscs

With teacher's manual.
Contents.— New Americans.— German-Americans.—
Italian-Americans.— Mexican-Americans.—
Black Americans.

1 U.S. - Foreign population 2 Minorities
1 Title analytics

9-3

Sample Card 3

The illustrated treasury of poetry for children

821.08
ROS

Ross, David, comp.
The illustrated treasury of poetry for children. Grosset 1970
338p.

An anthology of poems, limericks, and nonsense verses by British and American writers about nature, music, animals, love and other topics.

1 Poetry - Collections 1 Title

11-2

Sample Card 4

Illustration 6. CATALOG CARDS

Filmstrip
353.9752 The Governor. Free State Media 1004
GOV 21fr. color
With teacher's guide.

Sample Card 1

Points out the requirements for and duties of the Governor of Maryland.

1 Maryland - Politics and government
2 Governors

11-2

Film loop
593 Amoeba. Univ. Educ. and Visual Arts 4056
AMO 3½ min color

Sample Card 2

Illustrates the structure and activities of a representative amoeba in sufficient detail so they can be clearly observed, interpreted, and understood.

1 Cells 2 Protozoa

Record
398.2 Fairy tale favorites. CMS Records CMS 593,
FAI 595, 632
s. 12" 33 1/3rpm. or cassettes

Told by Mary Strang.
Notes on each slipcase.

1 Fairy tales 2 Folklore

Sample Card 3

2-2

METRIC SYSTEM

Kit
389
INT

Introducing the metric system. Natl. Geographic Society 1977
3fs. color and 3 cassettes

With teacher's guides.
Contents: Length - Weight - Volume and temperature.

Sample Card 4

1 Metric system. 2 Weights and measures.
1 National Geographic Society.

9-7

KT2-0013810

- LOWRY, PETER**
MOEL ROCKETRY, HOBBY OF TOMORROW, BY P. LOWRY AND F. GRIFFITH. DOUBLEDAY, 1972.
A B C CH O OM G K LF P RV S T W WO J629.1331
- LUBELL, WINIFRED**
BIROS IN THE STREET, THE CITY PIGEON BOOK, BY W. AND C. LUBELL. PARENTS, 1971.
A B BK CH O OM F G K LB RV S T W WO J598.65
GREEN IS FOR GROWING. RAND, 1964.
A B BK CH O F G K LB LF P RV S SH T W WO J580
IN A RUNNING BROCK, BY W. AND C. LUBELL. RAND, 1968.
A B C CH O F G K LB LF RV S T W WO J574.929
STITCHERY BOOK, EMBROIDERY FOR BEGINNERS, BY I. P. MILLER AND W. LUBELL. DOUBLEDAY, 1965.
A B BK C CH O OM G K LF N P RV S T W WO J746.44
- LUBOWE, IRWIN IRVILLE**
TEEN-AGE GUIDE TO HEALTHY SKIN AND HAIR, BY I. I. LUBOWE AND B. HUSS. 2D ED. OUTTON, 1972.
A BK OM F K P RV SH W J613.4
- LUCAS, MARY SEYMOUR**
VAST HORIZONS. VIKING, 1943.
A B BK O OM F G K LB LF P RV S SH T W WO J910
- LUCE, WILLARD**
LOU GEHRIG, IRON MAN OF BASEBALL, BY W. AND C. LUCE. GARRARD, 1970.
CM JB 6311
- LUCKHART, MILDRED MADELEINE COBELL**
SPECKY TALES ABOUT WITCHES, GHOSTS, GOBLINS, DEMONS, AND SUCH. ABINGDON, 1972.
A B BK C CH O OM F G K LF N P RV S SH T W WO FICTION
- LUDBERS, BARBARA**
DIE WICHTELEI IM ROTEN EI. WOLFGANG METZNER, N.O.
ENGLISH TITLE: LITTLE CHILDREN IN THE RED EGG.
W JG833
- LUOLUM, BARBARA**
FILMS KIOS LIKE, A CATALOG OF SHORT FILMS FOR CHILDREN, BY S. RICE AND B. LUOLUM. A.L.A., 1973.
C CH LB N RV S W J011
- LUOVICIC, LAURENCE JAMES**
ORIGINS OF LANGUAGE. PUTNAM, 1965.
A B CH O OM K LB LF N P RV S T W WO J401
WORLD OF THE MICROSCOPE. PUTNAM, 1959.
A B CH O OM F G K LB LF RV SH T W J589.95
- LUGER, HARRIETT MANDELAY**
LAST STRONGHOLD, A STORY OF THE MOOOC INDIAN WAR, 1872-1873. YOUNG SCOTT, 1972.
A B BK C CH O OM K LF RV S T W WO FICTION
- LUM, PETER**
STARS IN OUR HEAVENS, MYTHS AND FABLES. PANTHEON, 1948.
A B C CH O OM F G K LF N RV S SH T W WO J291
- LUND, DORIS BEROLD**
PAINT-BOX SEA, BY O. H. LUND. ILLUS. BY S. SHIMIN. MCGRAW, 1973.
A B BK C CH O OM F G K LB LF N P RV SH WO P
- LUNDKVIST, ANNA-LISA**
BEWAHRTE FREUNDSCHAFT. VERLAG RABEN OCH SJOGREN, N.O.
ENGLISH TITLE: PROVEN FRIENDSHIP.
LF JG833
- LUNN, JANEI LOUISE SWOBODA**
TWIN SPELL. HARPER, 1969.
A B BK CH O OM F G K LF N P RV S SH T W WO FICTION
- LUIGEN, KURI**
NEXT TO THE NORTH WIND. TR. BY M. PELIKAN. DOUBLEDAY, 1973.
A B O OM G K LB N P RV S T W WO FICTION
- LUTHI, MAX**
ONCE UPON A TIME, ON THE NATURE OF FAIRY TALES. UNGAR, 1970.
C J398
- LUIZ, FRANK EUGENE**
FIELD BOOK OF INSECTS OF THE UNITED STATES AND CANADA. 3D ED. PUTNAM, 1948.
A B BK CH O OM F G K LB P RV S SH T W WO J595.7
- LYERLY, RAY L.**
NUCLEAR POWER PLANTS, BY R. L. LYERLY AND W. MITCHELL. REV. ED. U. S. ATOMIC ENERGY COMM., 1973.
A D CM G LF RV T W J621.483
- LYNCH, PATRICK**
STORY OF ANCIENT EGYPT, BY B. SEWELL AND P. LYNCH. ST MARTINS, 1960.
A B CH O OM F G K LB LF RV S SH T W WO J932
- LYONS, DOROTHY**
BLUE SMOKE. HARCOURT, 1953.
A B BK CH O OM G K LF RV S T W WO FICTION
DARK SUNSHINE. HARCOURT, 1951.
A B BK CH O OM G K LF RV S T W WO FICTION
- LYTLE, RICHARD B**
PAINTS, INKS, AND OYES. HOLIDAY, 1974.
C OM S J667
- MACDONALD, GEORGE**
M
- MAAS, SELVE**
MOON PAINTERS, AND OTHER ESTONIAN FOLK TALES. VIKING, 1971.
A B BK C CH O OM K LF RV S W WO J398.2
- MABINOIGION**
MABINOIGION. TR. WITH AN INTRO. BY G. JONES AND T. JONES. OUTTON, 1949.
C J398.2
- MACAGY, DOUGLAS**
SEE ALSO MC.
GOING FOR A WALK WITH A LINE, A STEP INTO THE WORLD OF MODERN ART, BY O. AND E. MACAGY. DOUBLEDAY, 1959.
A B C CH O OM F G K LB LF N P RV S SH T W WO J759.06
- MACALPINE, MARGARET**
BLACK GULL OF CORRIE LOCHAN. PRENTICE, 1965.
A C CH O LB LF RV S W FICTION
- MALCALVAY, NORA TULLY**
CATHIE AND THE PAOODY BOY. VIKING, 1962.
C RV S FICTION
CATHIE STUART. VIKING, 1957.
C LF FICTION
FIRST PERFORMANCE, PLAYS FOR THE JUNIOR HIGH SCHOOL AGE, SEL. AND ED. BY N. MACALVAY AND V. L. COMER. HARCOURT, 1952.
C J812.08
- MACAULAY, DAVID**
CATHEDRAL, THE STORY OF ITS CONSTRUCTION. HOUGHTON, 1973.
A B BK C CH O OM F G K LB LF N P RV S SH T W WO J726.6
CITY, A STORY OF ROMAN PLANNING AND CONSTRUCTION. HOUGHTON, 1974.
A B C CH O OM F G K LB LF N P RV S T W WO J711.4
PYRAMID. HOUGHTON, 1975.
A B C CH O OM F G K LB LF N P RV S SH T W WO J932
- MACBETH, GEORGE**
NOAH'S JOURNEY. VIKING, 1966.
C G LF P
- MACBRIDE, ROGER LEA**
WEST FROM HOME; LETTERS OF L. I. WILDER TO ALMANZO WILDER, SAN FRANCISCO, 1915. ED. BY R. L. MACBRIDE; HISTORICAL SETTING BY MARGOT PATTERSON OOSS. HARPER, 1974.
A B BK C CH O G K LB N RV S T W WO JB 6673
- MACCANN, DONNARAE**
BLACK AMERICAN IN BOOKS FOR CHILDREN: READINGS IN RACISM, ED. WITH AN INTRO. BY O. MACCANN AND G. WOODARD. SCARECROW, 1972.
A B C CH O LF RV S W WO J028.5
CHILD'S FIRST BOOKS, A CRITICAL STUDY OF PICTURES AND TEXTS, BY O. MACCANN AND O. RICHARD. WILSON, 1973.
C RV W J741.64
- MACCLINTOCK, DORCAS**
NATURAL HISTORY OF GIRAFFES. SCRIBNER, 1973.
A B C O K LB N S W J599.7357
- MACDONALD, BETTY BARD**
MRS. PIGGLE-WIGGLE. LIPPINCOTT, 1957.
A B BK CH O OM F G K LB LF N P RV S SH T W FICTION
MRS. PIGGLE-WIGGLE'S MAGIC. LIPPINCOTT, 1957.
A B BK C CH O OM F G K LB LF N P RV S SH T W FICTION
M
- MACDONALD, GEORGE**
AT THE BACK OF THE NORTH WIND. MACMILLAN, 1950.
BK C F G LF RV T W FICTION
AT THE BACK OF THE NORTH WIND, BY G. MACDONALD. ILLUS. BY E. H. SHEPARD. OUTTON, 1956.
A B C CH O OM G K LB LF N RV S SH T W WO FICTION
AT THE BACK OF THE NORTH WIND. ILLUS. BY CHARLES MOZLEY. WATTS, 1964.
C FICTION
LIGHT PRINCESS, BY G. MACDONALD. ILLUS. BY W. P. DU BOIS. CROWELL, 1962.
A B BK C CH O OM G K LB LF N P RV S T W WO FICTION
LIGHT PRINCESS, BY G. MACDONALD. PICTURES BY M. SENDAK. FARRAR, 1969.
B C OM G N P S W FICTION
PRINCESS AND CUROIE. WITH ILLUS. BY DOROTHY P. LATHROP. MACMILLAN, 1927.
B BK F K LF N T W FICTION

- GREAT MEN OF MEDICINE, BY R. F. HUME
A B BK CH O F G K LB LF P RV S T W WO J926.1
- GREAT MIRACLE, THE STORY OF HANUKKAH, BY B. MORROW
A B BK CH O OM F G K LB LF P RV S T W WO J296.4
- GREAT MOMENTS IN AMERICAN SPORTS, BY J. BRONOFIELD
A B BK C CH O OM F G K LB LF N P RV S SH T W WO J796
- GREAT MOMENTS IN PRO FOOTBALL, COMP. BY Z. HOLLANDER
A B BK CH O G K LB LF N S T W J796.33
- GREAT MYSTIC ... THAT'S YOU, BY L. B. WHITE
A B C CH O G N T W WO J793.8
- GREAT NORTHERN, BY A. RANSOME
CH N S FICTION
- GREAT NUTRITION PUZZLE, BY O. CALLAHAN AND A. S. PAYNE
B CH O LB S W WO J641.1
- GREAT PICTURE ROBBERY, BY L. A. HARRIS
B F LF P S T W P
- GREAT PLAINS, ED. BY W. HAVIGHURST
SEE MIDWEST ANC GREAT PLAINS, ED. BY W. HAVIGHURST J917.7
- GREAT QUILLOW, BY J. THURBER
A B BK CH O OM F K LB LF P RV S SH T W WO FICTION
- GREAT QUILLOW, BY J. THURBER
B CH K LF P S RECORD L-1133
- GREAT REACHING OUT - HOW LIVING BEINGS COMMUNICATE, BY R. FROMAN
A B C O G K LF P RV S SH T W WO J591.59
- GREAT REBELLION, BY M. S. STOLZ
A B BK C CH C DM F G K LB LF RV S T W WO FICTION
- GREAT ROCKIES CF PRO BASKETBALL, COMP. BY Z. HOLLANDER
A B BK CH OM G K LB RV T W WO J796.32
- GREAT RUNNING BACKS, BY G. SULLIVAN
A B BK CH O OM F G K LB LF N RV S T W WO J796.33
- GREAT SHIP VASA, BY G. FRANZEN
A B CH O F G LB LF N P RV S T W WO J627.703
- GREAT STRUCTURES OF THE WORLD, BY H. A. AND M. C. KLEIN.
A B CH O G K LB LF N S T W WO J720.9
- GREAT SWEDISH FAIRY TALES, COMP. BY E. OLENIUS
A B C CH O OM F G K LF N P RV S W WO J398.2
- GREAT TALES CF MYSTERY AND ADVENTURE, BY R. L. STEVENSON
A B BK C CH O F G K LB LF N RV S SH T W WO FICTION
- GREAT TEAMS CF PRO BASKETBALL, BY L. SABIN
A B BK O F G K LB LF N P RV S T W WO J796.32
- GREAT THIRST, BY J. SEED
B C O K T FICTION
- GREAT TRAINS OF THE WORLD, BY W. BLASSINGAME
A B CH O OM F G K LB LF P RV SH T W WO J625.1
- GREAT UPON THE MOUNTAIN, BY V. BROWN
A C CH O JB C911
- GREAT UPSETS OF THE NFL, BY R. KAPLAN
A B BK CH O CM F G K LB LF N RV S T W WO J796.33
- GREAT WHALES, BY P. LAUBER
CM J599.5
- GREAT WHALES, BY H. S. ZIM
A B BK CH C F G K LB LF N P RV S SH T W WO J599.5
- GREAT WHEEL, BY R. LAWSON
A B BK CH C F G K LF N RV S SH W WO FICTION
- GREAT WHITE, BY J. ANNIXTER, PSEUD.
A B CH C K LB LF RV S T W WO FICTION
- GREATEST IN SPORTS, BY M. DAVIS
A B BK C CH O OM F G K LF RV S SH T W WO J927.96
- GREATEST REBEL, BY R. M. SPECTOR
A B CH O F G P RV S T W WO FICTION
- GREATEST YANKEES OF THEM ALL, BY R. ROBINSON
A B BK CH C CM F G K LB LF N P RV S SH T W WO J796.357
- GREECE, A BOOK TO BEGIN ON, BY S. H. FENTON
A B BK CH O OM F G K LB LF N P RV S W WO J938
- GREECE AND ROME - BUILDERS OF OUR WORLD. -- NATIONAL GEOGRAPHIC SOCIETY.
A B C CH O F G K LB LF N P RV SH T W WO RJ913.38
- GREECE AND THE GREEKS, BY L. HARRINGTON
A CH O CM G K LF P RV S SH T W WO J914.95
- GREEDY MARIANI, AND OTHER FOLKTALES OF THE ANTILLES,
SELECTED AND ADAPTED BY O. S. CARTER
C O G LB N RV J398.2
- GREEDY ONE, BY P. M. MARTIN
B BK CH C LF RV T WC FICTION
- GREEK GODS AND HERCES, BY R. GRAVES
C LF T W J292
- GREEK MYTHS, BY O. E. COOLIDGE
A B BK C CH C OM F G K LB LF N P RV S SH T W WO J292
- GREEK WAY, BY E. HAMILTON
A B C CH C F G K LB LF RV S T W WO JB80.9
- GREEN AND BURNING TREE, BY E. CAMERON
A B C CH C F G K LB LF N RV S SH T W WO J02B.5
- GREEN AND SOMETHING ELSE, BY G. B. NORRIS
A B BK C O OM G K LF N RV S SH T W WO FICTION
- GREEN CHILDREN, BY K. CROSSLEY-HOLLAND
A B BK C CH C F G K LF N RV S WO FICTION
- GREEN EGGS AND HAM, BY DR. SEUSS, PSEUD.
A B BK C CH O OM F G K LB LF N P RV S SH T W WO P
- GREEN EYES, BY A. BIRNBAUM
A B BK C CH O OM F G K LB LF N P RV S T W WO P
- GREEN FAIRY BOOK, ED. BY A. LANG
A B BK C CH O F G K LB LF S T W J398.2
- FOR PARTICULAR EDITIONS, SEE AUTHOR CATALOG
- GREEN FLASH, AND OTHER TALES OF HORROR, SUSPENSE AND FANTASY, BY J. AIKEN
A B BK C CH O OM F K LB LF RV S T W WO FICTION
- GREEN GRASS AND WHITE MILK, BY ALIKI, PSEUD.
A B BK C CH O G K LB LF N RV S SH T W WO J637
- GREEN GRASS GROWS ALL AROUND.
A BK C CH O OM F G K LB LF N P RV S SH T W WO P
- GREEN GRASS OF WYOMING, BY M. O'HARA, PSEUD.
A B BK C CH O OM F K LF RV S T W WO FICTION
- GREEN HERO; EARLY ADVENTURES OF FINN MCCOOL, BY B. EVSLIN
B C CH OM F G K LF N RV S T W J398.2
- GREEN HILL OF NENORUM, BY J. S. ANDREWS
A B BK CH O OM F G K LB LF N P RV S SH T W WO FICTION
- GREEN IS FOR GROWING, BY W. LUBELL
A B BK CH O F G K LB LF P RV S SH T W WO J580
- GREEN ROADS - POEMS, BY E. THOMAS
A B C CH OM LB LF RV S T W WO JB21
- GREEN TURTLE MYSTERIES, BY J. F. WATERS
A B BK CH O OM F G K LB LF N RV S T W WO J598.13
- GREENHEAD, BY L. OARLING
BK C LF T W J598.2
- GREENSLEEVES, BY E. J. MCGRAW
A B BK C CH O OM F G K LB LF N P RV S SH T W WO FICTION
- GREENWITCH, BY S. COOPER
A B BK C CH O OM F G K LB LF N P RV S T W WO FICTION
- GREG'S MICROSCOPE, BY M. E. SELSAM
A B BK C CH O OM F G K LB LF N P S SH T W WO J502.8
- GRETTIR THE STRONG, BY R. NEWMAN
A B C F K LB LF N RV S SH T W WO J398.2
- GRETTIR THE STRONG, BY A. FRENCH
SEE STORY OF GRETTIR THE STRONG, BY A. FRENCH J398.2
- GREY KING, BY S. COOPER
A B C CH O OM F G K LB LF N P RV S SH T W WO FICTION
- GREYHOUND, BY H. GRIFFITHS
A B CH O OM F G LB LF RV S T W WO FICTION
- GREYLING, BY J. H. YOLEN
A B BK C O OM F G K LF N RV S SH T W WO FICTION
- GRIOIRON GLORY, BY C. K. BISHOP
A B BK C CH F G K LF P S SH T W WO FICTION
- GRIFFIN AND THE MINOR CANON, BY F. R. STOCKTON
A B BK C CH O OM F K LF N RV S SH T W WO FICTION
- GRILLOS Y RANAS, BY G. MISTRAL
SEE CRICKETS AND FROGS, BY G. MISTRAL. JS460
- GRIMM'S FAIRY TALES, BY J. L. K. GRIMM
C O T W J398.2
- FOR PARTICULAR EDITIONS, SEE AUTHOR CATALOG
- GRIMM'S FAIRY TALES.
A B BK CH O F K LF P RV S T W WO RECORD L-181
- GRIMMS MARCHEN, BY J. L. K. GRIMM
W JG833
- GRISHKA AND THE BEAR, BY R. GUILLOT
A B BK C CH O G K LB LF RV S T W WO FICTION
- GRIZZLY, BY A. AND E. JOHNSON
A B BK O OM F G K LB LF N P RV S T W WO FICTION
- GRIZZLY, BY A. AND E. JOHNSON
LARGE TYPE ED. PH FICTION
- GRIZZLY BEAR, BY B. FRESCHET
B C CH O G K LB LF N P RV J599.744
- GROCERY STORE BOTANY, BY J. E. RAHN
A B C F G K N RV S W J581.0724
- GROOBER, BY B. C. BYARS
A BK CH O K RV P
- GROVER, BY V. AND B. CLEAVER
A B BK C CH O OM F G K LB LF N P RV S SH T W WO FICTION
- GROWING UP, BY K. DE SCHWEINITZ
A B BK C CH O OM F G K LB LF N P RV S SH T W WO J612.5
- GROWING UP GREEN, BY A. SKELSEY AND G. HUCKABY
A BK C CH O OM G K LB LF N P RV SH T J635
- GROWING UP IN 13TH CENTURY ENGLAND, BY A. L. OUGGAN
A B CH O OM F G K LB LF N RV S T W WO J914.2
- GROWING UP WITH THE NORMAN CONQUEST, BY A. L. OUGGAN
A B CH O G K LB LF P S T W WO J914.2
- GUADALCANAL, BY I. WERSTEIN
B BK CH O G K LF N P RV T W WO J940.542
- GUADALCANAL DIARY, BY R. W. TREGASKIS
A B BK CH O OM K LB LF N P RV S SH T W WO J940.542

Illustration 9. CHILDREN'S BOOK CATALOG — SUBJECTS

- MAN-MACHINE SYSTEMS**
 CORLISS, WILLIAM R. TELEOPERATORS: MAN'S MACHINE PARTNERS, BY W. R. CORLISS. U. S. ATOMIC ENERGY CCM., 1972. J620.46
 G W
- MANGAS COLORADOS, APACHE CHIEF**
 COCKE, DAVID COXE. APACHE WARRIOR. NORTON, 1963. JB M277
 B F G L F P R V S T W
- MANNERS SEE ETIQUETTE.**
- MANNERS AND CUSTOMS**
 SEE ALSO CHIVALRY. CLOTHING AND DRESS. COSTUME. ETIQUETTE. FESTIVALS. HALLOWEEN. HOLIDAYS. SPORTS.
 BERRY, ERICK, PSEUDO. EATING AND COOKING AROUND THE WORLD, FINGERS BEFORE FORKS. OAY, 1963. J641
 A B BK C CH O OM F G K LB LF P RV S SH T W WO
 HIRSCH, S. CARL. STILTS. VIKING, 1972. J796.2
 A B BK C CH C F G K LF N RV S T W WO
- MANTLE, MICKEY**
 MANTLE, MICKEY. EDUCATION OF A BASEBALL PLAYER. SIMON, 1967. J796.357
 A B BK CH O OM G K LB LF N P RV S T W WO
 SHAPIRO, MILTON J. MICKEY MANTLE, YANKEE SLUGGER. MESSNER, 1962. JB M292
 B BK C O G S W
- MANUAL ALPHABETS SEE DEAF - MEANS OF COMMUNICATION.**
- MANUFACTURES**
 SEE ALSO NAMES OF INDUSTRIES, E. G., PAPER MAKING AND TRADE. TEXTILE INDUSTRY AND FABRICS.
 WATSON, ALOREN AULO. WHERE EVERYOAY THINGS COME FROM. PLATT, 1974. J600
 A BK C CH O OM F G K LB LF N P S SH T W WO
 WAY THINGS WORK - AN ILLUSTRATED ENCYCLOPEOIA OF TECHNOLOGY. SIMON, 1967-71. 2V. RJ603
 A B CH O F K LF RV S T W WO
 FOR PARTICULAR EDITIONS, SEE AUTHOR CATALOG
- MAO, TSE-TUNG**
 ARCHER, JULES. MAO TSE-TUNG. HAWTHORN, 1972. JB M296
 A B C CH O OM G K LF RV S SH T W WO
- MAORIS**
 LISITZKY, GENEVIEVE HELLEN. FOUR WAYS OF BEING HUMAN, AN INTRODUCTION TO ANTHROPOLOGY. VIKING, 1956. J572
 A B BK C CH O G K LF RV S T W WO
 MCGUIRE, EDNA. MAORIS OF NEW ZEALAND. MACMILLAN, 1968. J919.31
 A B CH O CM F G K LB LF P RV S SH T W WO
- MAP MAKING**
 BROWN, LLOYD ARNOLD. MAP MAKING, THE ART THAT BECAME A SCIENCE. LITTLE, 1960. J526.809
 ENLARGED FROM AN EARLIER WORK, STORY OF MAPS. A B C CH O OM F G K LB LF P RV S SH T W WO
 RAISZ, ERWIN JOSEPHUS. MAPPING THE WORLD. ABELARO, 1956. J526.809
 A B CH O OM G K LB LF RV S T W WO
 TANNENBAUM, BEULAH. UNDERSTANDING MAPS, CHARTING THE LAND, SEA AND SKY, BY B. TANNENBAUM AND M. STILLMAN. REV. ED. MCGRAW, 1969. J526.8
 A B CH D OM F G K LB LF N P RV S SH T W WO
- MAPS**
 BROWN, LLOYD ARNOLD. MAP MAKING, THE ART THAT BECAME A SCIENCE. LITTLE, 1960. J526.8
 ENLARGED FROM AN EARLIER WORK, STORY OF MAPS. A B C CH O OM F G K LB LF P RV S SH T W WO
 EPSTEIN, SAMUEL. FIRST BOOK OF MAPS AND GLOBES, BY S. AND B. EPSTEIN. WATTS, 1959. J526.8
 A B BK CH O OM F G LB LF N P RV S SH T W WO
 GREENWOOD, DAVID. DOWN TO EARTH, MAPPING FOR EVERYBODY. HOLIDAY, 1951. J526.8
 BK C-LF-T W
 MCFALL, CHRISTIE. MAPS MEAN ADVENTURE. REV. ED. 0000, 1972. J526.8
 A B O G K LB P RV S SH T W WO
 FOR PARTICULAR EDITIONS, SEE AUTHOR CATALOG
 POST, J. B. ATLAS OF FANTASY, COMP. BY J. B. POST. MIRAGE PR., 1973. J398.234
 N
 RAISZ, ERWIN JOSEPHUS. MAPPING THE WORLD. ABELARO, 1956. J526.809
 A B CH O OM G K LB LF RV S T W WO
- RINKOFF, BARBARA. MAP IS A PICTURE. CROWELL, 1965. J526.8
 A B C CH OM F G K LB N RV S SH T W WO
 TANNENBAUM, BEULAH. UNDERSTANDING MAPS, CHARTING THE LAND, SEA AND SKY, BY B. TANNENBAUM AND M. STILLMAN. REV. ED. MCGRAW, 1969. J526.8
 A B CH D OM F G K LB LF N P RV S SH T W WO
- MARCONI, GUGLIELMO MARGHESE**
 COE, DOUGLAS, PSEUDO. MARCONI, PIONEER OF RADIO. MESSNER, 1943. JB M321
 BK C O F LF RV S T W
- MARIE ANTOINETTE, CONSORT DE LOUIS 16TH, KING OF FRANCE**
 KIELTY, BERNARDOINE. MARIE ANTOINETTE. RANDOM, 1955. JB M334
 A BK C CH O OM F G K LF P S W WO
 VANCE, MARGUERITE. MARIE ANTOINETTE, DAUGHTER OF AN EMPRESS. OUTTON, 1950. JB M334
 A B BK C CH O OM F K LF RV S SH T W WO
- MARINE BIOLOGY**
 SEE ALSO MARINE FAUNA. MARINE FLORA. OCEANOGRAPHY. SEASHORE.
 AGUIRRE, F. GOICO. EL MAR, ILLUSTRACIONES DE F. GOICO AGUIRRE. AGUILAR, 1967. JS551.46
 ENGLISH TITLE - THE SEA. B BK C K LF S
 ARNOV, BORIS. HOMES BENEATH THE SEA - AN INTRODUCTION TO OCEAN ECOLOGY. LITTLE, 1969. J574.92
 A B CH D OM F G K LB LF N P RV S SH W WO
 BERRILL, NORMAN JOHN. LIFE OF THE OCEAN, BY N. J. BERRILL. MCGRAW, 1966. J551.46
 PUB. IN COOPERATION WITH THE WORLD BOOK ENCYCLOPEOIA. A B BK CH O OM F G K LB LF N P RV S SH T W WO
 CARSON, RACHEL LOUISE. SEA AROUND US, BY R. L. CARSON. SPECIAL ED. FOR YOUNG READERS, ADAPTED BY A. T. WHITE. GOLDEN, 1958. J551.46
 A B BK CH O OM G K LF N RV S T W WO
 CLARKE, ARTHUR CHARLES. CHALLENGE OF THE SEA. ILLUS. BY ALEX SCHOMBURG. HOLT, 1960. J551.46
 A B BK CH O OM F G K LB LF P RV S SH T W WO
 CLEMONS, ELIZABETH CAMERON. SEVEN SEAS. KNOPF, 1971. J551.46
 A B BK C O OM F G K LB LF RV S SH T W WO
 CONOCE LOS HABITANTES DEL MAR. FHER, 1966. ENGLISH TITLE - KNOW THE INHABITANTS OF THE SEA. B BK C K LF S W J551.46
 HYLANDER, CLARENCE JOHN. SEA AND SHORE. MACMILLAN, 1950. J591.92
 B N
 JACOBS, FRANCINE. SARGASSO SEA: AN OCEAN OESERT. MORROW, 1975. J551.46
 C O K LF RV SH W
 KOHN, BERNICE. BEACHCOMBER'S BOOK. VIKING, 1971. J591.92
 A B BK CH O OM F G K LF N RV S SH T W WO
 LIST, ILKA KATHERINE. QUESTIONS AND ANSWERS ABOUT SEASHORE LIFE. FOUR WINDS, 1970. J574.92
 A B BK C CH O OM F G K LB LF N P RV S SH T W
 SILVERBERG, ROBERT. WORLD WITHIN THE OCEAN WAVE. WEYBRIGHT, 1972. J574.92
 A B BK C O OM F G K LB LF P RV S SH T W WO
 VOGEL, HELEN WOLFF. OCEAN HARVEST - THE FUTURE OF OCEANOGRAPHY, BY H. W. VOGEL AND M. L. CARUSO. KNOPF, 1961. J551.46
 C LB LF T W
- MARINE CORPS, U. S. SEE U. S. MARINE CORPS.**
- MARINE FAUNA**
 SEE ALSO FISH. MARINE BIOLOGY. PLANKTON.
 BRIGGS, WILLIAM. NEW YORK AQUARIUM BOOK OF THE WATER WORLD. AMERICAN HERITAGE, 1970. J591.92
 A B BK CH O OM G K LB LF N RV S T W WO
 CLARKE, ARTHUR CHARLES. INDIAN OCEAN ADVENTURE. HARPER, 1961. J591.92
 A B BK CH O OM F G K LB LF P RV S SH T W WO
 COUSTEAU, JACQUES YVES. SILENT WORLD, BY J. Y. COUSTEAU WITH F. OUMAS. HARPER, 1953. J591.92
 A B BK CH O OM F G K LB LF P RV S SH T W WO
 MCLUNG, ROBERT M. SEA STAR. MORROW, 1975. J593.93
 A B C CH O OM F K LF N P RV S T W
 SILVERSTEIN, ALVIN. METAMORPHOSIS - THE MAGIC CHANGE, BY A. AND V. SILVERSTEIN. ATHENEUM, 1971. J591.3
 A B BK CH O K LB LF RV S W WO
 STEPHEN, DAVID. DOLPHINS, SEALS AND OTHER SEA MAMMALS, ED. BY O. STEPHEN. PUTNAM, 1973. J599.745
 A B BK C CH O OM G K LB LF N P RV S T W WO
 WOODELL, HELENE J. WHEN THE TIDE GOES OUT. WORLD, 1969. J591.92
 A B BK C CH O F G K LB LF N RV S W WO

barato

barato, -ta, *a.* cheap, low-priced; easy. — *n.m.* bargain or reduction sale; money given by winning gamblers; *cobras el barato*, to dominate over; *dar de barato*, to admit for the sake of argument; *echar or meter a barato*, to confuse, interrupt (a speaker); *lo barato es caro*, cheap things are dear in the long run. — *adv.* cheaply; *de barato*, gratuitously, without interest.

baratro, *n.m.* (poet.) hell; (*Bibl.*) Sheol; abyss.

baratura, *n.f.* cheapness, little value.

baraúnda, *n.f.* noise, hurly-burly, confusion.

baraustado, -da, *a.* aimed, pointed; (*slang*) stabbed to death. — *p.p.* [BARAUSTAR].

baraustador, *n.m.* (*slang*) dagger.

baraustar, *v.t.* to aim, point; to ward off, deflect (blow).

barba, *n.f.* chin; beard; shave, shaving; goat's whiskers; first swarm of bees; top of a beehive; wattle. — *n.m.* player who takes old men's parts; *barba cerrada*, thick strong beard; *barbas de chivo or de macho*, (*coll.*) pointed beard; man having such a beard; *barbas de zamorro*, heavy curly beard; *a barba regada*, very abundantly; *andar con la barba por el suelo*, to be very old, decrepit; *andar, estar con, traer la barba sobre el hombro*, to be on the alert, cautious; *llevar de la barba*, to rule, domineer; to lead by the nose; *tirarse, pelarse (de) las barbas*, to fly into a rage; *temblarle a uno la barba*, to be afraid; *tener una mujer buenas barbas*, to be a good-looking woman; *tentarse la barba*, to stroke one's beard; *mentir por la barba*, to tell a barefaced lie; *barba cabruna*, (*bot.*) yellow goat's beard; *barba de Aarón*, (*bot.*) green dragon arum; *barba a barba*, face to face; *por barba*, per head, apiece; *hacer la barba*, shave; (*coll.*) to annoy, irritate; to flatter; *a poca barba, poca vergüenza*, youth is rash and daring. — *pl.* (*astron.*) beard (comet); slender roots; fibres; rough edges of paper; vanes of a quill; (*vet.*) ranula; *a la barba, en sus barbas*, in his beard, to his face; *barbas de ballena*, whalebone; *barbas de gallo*, wattle; *barba honrada*, honourable man; *subirse a las barbas*, to show disrespect, to fly in one's face; *tener pocas barbas*, to be young or without experience; *echarlo a las barbas*, to reproach a man with something.

barbacana, *n.f.* (*mil.*) barbican; churchyard wall; loophole.

barbacoa; **barbacuá**, *n.f.* (*Am.*) barbecue.

barbada, *n.f.* lower jaw of a horse; bridle-curb; (*ichth.*) dab, small flatfish.

barbadamente, *adv.* strongly, vigorously.

barbado, -da, *a.* bearded, barbed, barbated. — *n.m.* full-grown man; vine or tree transplanted; (*bot.*) shoot, sucker; (*slang, zool.*) buck; *plantar de barbado*, to plant a sucker with roots. — *p.p.* [BARBAR].

barbaja, *n.f.* (*bot.*) cut-leaved viper's-grass. — *pl.* (*agric.*) first roots of plants.

barbaján, *n.m., a.* (*Cub., Mex.*) coarse, clumsy, brutish.

barbajuelas, *n.f.pl.* small roots.

barbar, *v.i.* to grow a beard; to rear bees; (*agric.*) to strike root.

barbaramente, *adv.* barbarously, savagely, coarsely, rudely.

barbáricamente, *adv.* like barbarians.

barbárico, -ca, *a.* barbarous, barbarian.

barbilla

barbaridad, *n.f.* barbarity, barbarism, cruelty; (*fig.*) temerity, rashness; rudeness; wild expression or action; lack of breeding; (*coll.*) nonsense; blunder; (*coll.*) great quantity; *comer una barbaridad*, to eat enormously; *¡qué barbaridad!* (*coll.*) what a scandal! how absurd!

barbarie, *n.f.* (*fig.*) barbarousness, incivility; rusticity; cruelty.

barbarismo, *n.m.* barbarism, barbarousness; (*poet.*) crowd of barbarians.

barbarizar, *v.t.* (*pret.* barbaricé; *pres. subj.* barbarice) to barbarize. — *v.i.* (*fig.*) to make wild statements.

barbaro, -ra, *a.* barbaric, barbarous, barbarian; (*coll.*) fierce, cruel; (*fig.*) rash, reckless; rude, unpolished; (*coll.*) very big. — *n.m.f.* barbarian.

barbarote, -ta, *a.* (*coll.*) very fierce, cruel; very rude; extremely rude, ill-bred.

barbato, -ta, *a.* having the tail before the nucleus (comets).

barbaza, *n.f.* long beard.

barbear, *v.t.* to reach with the chin; (*Mex.*) to shave; (*Mex.*) to throw down a steer. — *v.i.* to be almost as high (one thing) as (another); *barbear con la pared*, to be nearly as high as the wall; *barbeando*, (*naut.*) lying alongside. — *v.r.* (*fig.*) to be very stiff with someone.

barbechada, *n.f.* (*agric.*) ploughing.

barbechar, *v.t.* (*agric.*) to fallow; to prepare ground for sowing.

barbechera, *n.f.* series of ploughings; act of ploughing; fallowing season.

barbecho, *n.m.* fallow; first ploughing of the ground; ploughed land ready for sowing; *firmar como en un barbecho*, (*coll.*) to sign without due examination or reflection.

barbera, *n.f.* barber's wife.

barbería, *n.f.* barber's shop or trade.

barberil, *a.* pertaining to a barber, barber-like.

barberillo, *n.m.* little barber.

barbero, *n.m.* barber; (*prov.*) net for barbel; (*Mex.*) flatterer, fawner; (*ichth.*) fish of the Caribbean Sea; *ni barbero mudo, ni cantor sesudo*, the barber is as talkative as the actor is improvident.

barbeta, *n.f.* (*naut.*) gasket; (*artill.*) barbette; *a barbete*, (*artill., fort.*) en barbette.

barbil, *a.* (*slang*) generous, very good.

barbián, -na, *a.* (*coll.*) bold, forward; free, easy.

barbiblanco, -ca, *a.* grey or white-bearded.

barbicacho, *n.m.* ribbon tied under the chin.

barbicano, -na, *a.* grey-bearded.

barbicastaño, *a.* with chestnut-coloured beard.

barbiespeso, -sa, *a.* having a thick beard.

barbihecho, -cha, *a.* freshly shaven.

barbijo, *n.m.* (*Arg. & prov.*) chin-strap; scar on face.

barbilampiño, -ña, *a.* smooth-chinned; with a thin beard.

barbilindo, -da, *a.* well-shaved and trimmed; effeminate and pretty; foppish, dandyish.

barbilucel, -cia, *a.* smooth-faced, pretty, genteel.

barbiluengo, *a.* long-bearded.

barbilla, *n.f.* point of the chin; (*ichth.*) barbel, fleshy filament; (*carp.*) rabbit; (*vet.*) ranula, tumour under the tongue; (*Col.*) man with thin beard.

skin

separated from the body — compare *HIDE* **b**: a sheet of parchment or vellum made from a hide **c**: BOTTLE **1b**
2 a: the external limiting layer of an animal body esp. when forming a tough but flexible cover; *also*: the 2-layered tissue of which this is formed in a vertebrate — compare *DERMIS*, *EPIDERMIS* **b**: an outer or surface layer (as a rind) (a sausage *skin*) (apple *skins*) **3**: the life or physical well-being of a person (made sure to save his *skin*) **4**: a sheathing or casing forming the outside surface of a structure (as a ship or airplane) — *skin-less* \-ləs\ *adj* — *skinned* \ˈskɪnd\ *adj*
skin *vb* *skinned*; *skin-ning* **1**: to cover or become covered with or as if with skin **2 a**: to strip, scrape, or rub off the skin of (*skin* a fruit) (*skinned* his knee) **b**: to strip or peel off **3 a**: CHEAT, FLEECE **b**: DEFEAT **c**: CENSURE, REPRIMAND **4 a**: to climb or descend (*skin* up and down a rope) **b**: to pass or get by with scant room to spare
skin-deep \ˈskɪn-ˈdēp\ *adj* **1**: as deep as the skin **2**: not thorough or lasting in impression: SUPERFICIAL
skin dive *vi*: to swim deep below the surface of water with a face mask and flippers and with or without a portable breathing device — *skin diver* *n*
skin-flint \ˈskɪn-ˈflɪnt\ *n*: a person who is very hard and grasping in money matters
skin-ful \-,ˈfʊl\ *n* **1**: the contents of a skin bottle **2**: a large or satisfying quantity esp. of liquor
skin game *n*: a swindling game or trick
skin graft *n*: a piece of skin transferred from a donor area to grow new skin at a place denuded (as by burning)
skink \ˈskɪŋk\ *n* [*Gk skinkos*]: any of a family of mostly small lizards with small scales
skin-ner \ˈskɪn-ər\ *n* **1 a**: one that deals in skins, pelts, or hides **b**: one that removes, cures, or dresses skins **2**: a driver of draft animals and esp. of mules
skin-ny \ˈskɪn-ē\ *adj* *skin-ni-er*; -est **1**: resembling skin: MEMBRANOUS (a *skinny* layer) **2**: very thin: LEAN, EMACIATED — *skin-ni-ness* *n*
skin test *n*: a test (as a scratch test) performed on the skin and used in detecting allergic hypersensitivity
skin-tight \ˈskɪn-ˈtɪt\ *adj*: closely fitted to the figure
skip \ˈskɪp\ *vb* *skipped*; *skip-ping* [*ME skippen*] **1 a**: to move or proceed with leaps and bounds: CAPER **b**: to bound or cause to bound off one point after another: RICOCHET **c**: to leap over lightly and nimbly **2**: to leave or leave from hurriedly or secretly **3 a**: to pass over or omit (as an interval, item, or step) **b**: to omit or cause to omit a grade in school in advancing to the next **c**: to pass over without notice or mention **d**: to fail to attend (*skipped* the meeting) **e**: MISFIRE **1**
skip *n* **1 a**: a light bounding step **b**: a gait composed of alternating hops and steps **2**: an act of omission or the thing omitted
skip *n*: the captain of a side in some games (as curling or lawn bowling)
skip *vr* *skipped*; *skip-ping*: to act as skipper of
ski pants *n pl*: pants for skiing that are ribbed or close-fitted at the ankle
skip-jack \ˈskɪp-ˈjæk\ *n, pl skipjacks* or *skipjack*: any of various fishes (as a bonito or bluefish) that jump above or play at the surface of the water
ski pole *n*: a metal-pointed pole or stick of steel or cane fitted with a strap for the hand at the top and an encircling disk set a little above the point and used as an aid in skiing
skip-per \ˈskɪp-ər\ *n* **1**: one that skips **2 a**: any of numerous small stout-bodied insects of swift erratic flight that differ from the typical butterflies in wing venation and the form of the antennae **b**: any of several small leaping insects (cheese *skippers*)
skipper *n* [*MD schipper*, fr. *schip* ship; akin to *E ship*] **1**: the master of a ship; *esp*: the master of a fishing, small trading, or pleasure boat
skirl \ˈskɑrl, ˈskɪrl\ *vb*: to sound the high shrill tone of the bagpipe
skirl *n*: the high shrill sound of a bagpipe
skir-mish \ˈskɪr-mɪʃ\ *n* [*MF escarmouche*, fr. It *scaramuccia*] **1**: a minor fight in war usu. incidental to larger movements **2**: a brisk preliminary conflict
skirmish *vi* **1**: to engage in a skirmish **2**: to search about (as for supplies) — *skir-mish-er* *n*
skirr \ˈskɑr\ *vb* **1**: to leave hurriedly: FLEE; *also*: to

skunk

move rapidly **2**: to pass rapidly over esp. in search of something
skirr *n*: WHIR, ROAR
skirt \ˈskɜrt\ *n* [*ON skyrta* shirt, kirtle; akin to *E shirt*] **1 a**: a free hanging part of a garment extending from the waist down **b**: a separate free hanging garment for women and girls covering the body from the waist down **c**: either of two flaps on a saddle covering the bars on which the stirrups are hung **2 pl**: the outlying parts of a town or city: OUTSKIRTS **3**: a part or attachment serving as a rim, border, or edging **4 stang**: GIRL, WOMAN
skirt *vb* **1**: to form or run along the edge of: BORDER **2**: to provide a skirt or border for **3 a**: to go or pass around or about; *esp*: to go around or keep away from in order to avoid danger or discovery **b**: to evade or miss by a narrow margin **4**: to be, lie, or move along an edge, border, or margin — *skirt-er* *n*
skirt-ing \-ɪŋ\ *n* **1**: something that skirts: as a: BORDER, EDGING **b Brit**: BASEBOARD **2**: fabric (as wool) suitable for skirts
ski run *n*: a slope or trail suitable for skiing
ski suit *n*: a warm outfit for winter sports made in one-piece or two-piece style with a jacket top and pants usu. having ribbed cuffs
skit \ˈskɪt\ *n* **1**: a satirical or humorous story or sketch; *esp*: a sketch included in a dramatic performance (as a review) **2**: a short serious dramatic piece; *esp*: one done by amateurs
ski tow *n*: a power-driven conveyor for pulling skiers to the top of a slope that consists usu. of an endless motor-driven moving rope which the skier grasps **2**: SKI LIFT
skit-ter \ˈskɪt-ər\ *vb*: to glide or skip lightly or quickly: skim along a surface
skit-tish \ˈskɪt-ɪʃ\ *adj* [*ME*] **1**: lively or frisky in action: CAPRICIOUS **2**: easily frightened: RESTIVE (a *skittish* horse) **3**: COY, BASHFUL — *skit-tish-ly* *adv* — *skit-tish-ness* *n*
skit-tle \ˈskɪt-əl\ *n* **1 pl**: a form of ninepins that sometimes uses wooden disks instead of balls **2**: one of the pins used in skittles
skiv-vy \ˈskɪv-ē\ *n, pl skivvies* *Brit*: a female domestic servant
skivvy *n, pl skivvies*: underwear consisting of shorts and a collarless short-sleeved pullover — usu. used in *pl*
skoal \ˈskɔl\ *n* [*Dan skaal*, lit., cup; akin to *E scale*] **1**: TOAST, HEALTH — often used interjectionally
skua \ˈskju-ə\ *n* [*NL*, of Scand origin]: JAEGER; *esp*: a large No. Atlantic jaeger
skul-dug-gery or **skull-dug-gery** \ˈskʊl-ˈdʌg-(ə)-rē\ *n, pl -ger-ies*: underhanded or unscrupulous behavior: DISHONESTY, TRICKERY
skulk \ˈskʌlk\ *vi* [*of Scand origin*] **1**: to move in a stealthy or furtive manner: SNEAK **2**: to hide or conceal oneself from cowardice or fear or with treacherous intent — *skulk-er* *n*
syn SKULK, SLINK, SNEAK mean to go or act so as to escape attention. SKULK may imply shyness or cowardice but often suggests an intent to spy or waylay; SLINK stresses a moving so as to avoid notice rather than keeping actually out of sight; SNEAK may add an implication of furtively entering or leaving a place or of accomplishing a purpose by indirect and underhanded methods
skulk *n*: SKULKER
skull \ˈskʊl\ *n* [*of Scand origin*] **1**: the vertebrate head skeleton that forms a bony or cartilaginous case enclosing the brain and chief sense organs and supporting the jaws **2**: the seat of understanding or intelligence: MIND
skull and cross-bones \-ˈkrɒs-ˈbɒnz\ *n*: a representation of a human skull over crossbones usu. used as a warning of danger to life
skull-cap \ˈskʊl-ˈkæp\ *n*: a close-fitting cap; *esp*: a light cap without brim for indoor wear
skull practice *n*: a strategy class for an athletic team
skunk \ˈskʌŋk\ *n, pl skunks* *also* *skunk* [*of Algonquian origin*] **1**: any of various common omnivorous black-and-white New World mammals related to the weasels and having glands near the anus from which a secretion of pungent and offensive odor is ejected when the animal is startled **2**: an obnoxious person

o about; • kitten; or further; a back; ā bake; ä cot, cart; au out; oh chin; e less; ē easy; g gift; i trip; I life

- Soft-shell clam**
Clam Cl:496; picture on Cl:495
- Soft-shelled crab**
Blue Crab E:332
Seashore picture on S:217
- Soft-shelled turtle**
Turtle T:428; (Shell) T:428-427 with picture; (Soft-Shell Turtles) T:428b; picture on T:428a
- Soft-stemmed plant**
Leaf (A Leaf Begins Its Life) L:132
- Soft-wheat flour**
Flour (Types of Flour) F:232
- Softball** So:485 with pictures
- Software** [computer]
Computer (Programming a Computer) Cl:744a
- Softwood** [wood]
Lumber (Softwood Lumber) L:449
Plywood (Kinds of Plywood) P:522
Tree (Needleleaf Trees) T:338; (Needleleaf Forests) T:348c with picture
Wood (Kinds of Wood) W:325
Woodworking (Wood for Woodworking) W:333
- Sogdiana** [ancient city]
Alexander the Great (The Battle of Arbela) A:328-327
- Sogdianus** [half-brother of]
Xerxes II X:4E2
- Sogne Fjord**
Norway (Coast and Islands) N:423 with map
- Soham** [mineral]
Malachite M:78a
- Soho** [district]
London (Central London) L:384a-384b with map; (The People) L:384d
- Soil** [earth] So:487 with pictures and map
Agronomy A:152
Clay Cl:503
Compost Cl:738
Conservation (Soil Conservation) Cl:780; pictures on Cl:782
Drainage D:286a
Earthworm E:21
Environmental Pollution (Soil Pollution) E:280f
Fertilizer F:82
Forestry (Water) F:348
Gardening (Planning the Garden) G:33-36 with pictures
Humus H:381
Irrigation (Providing Artificial Drainage) I:389
Lawn (Preparing the Soil) L:122
Loam L:382
Loess L:376
Manure M:130
Moon (What the Moon Is Made Of) M:646c
Rock R:350
Soil Conditioner So:470
Topsoil T:259
See also the list of Related Articles in the Soil article
- Soil analysis**
Archaeology (Locating the Site) A:558-557
- Soil bank** [U.S. history] So:470
- Soil conditioner** [agriculture] So:470
- Soil conservation** See Conservation in this index
- Soil-conservation district**
Conservation (Community Cooperation) Cl:788
- Soil Conservation Service** [U.S.] So:470
Conservation (State and Federal Governments) Cl:786; (The 1930's and 1940's) Cl:789
- Soil Erosion Service** [U.S. history]
Conservation (The 1930's and 1940's) Cl:789
- Soil management**
Farm and Farming (Soil Management) F:37
- Soil pollution**
Environmental Pollution (Soil Pollution) E:280f
- Soil pore** [geology]
Ground Water G:394
- Soil science**
Conservation (Careers in Conservation) Cl:791-792
- Soil stack**
Plumbing (The Drainage System) P:515
- Soil sterilant**
Weed (Herbicides) W:145
- Soil Survey Staff** [U.S.]
Soil (How Soils Are Classified) So:469
- Soil testing**
Roads and Highways (Tests and Research) R:338
- Soiless agriculture** See Hydroponics in this index
- Soja bean** [plant] See Soybean in this index
- Soka Gakkai** [Buddhism]
Japan (Religion) J:38-39
- Sokhondo, Mount** [Russia]
Yablonovyy Mountains Y:454
- Sokol** [organization] So:470
- Sokoto Caliphate** [African history]
Hausa H:90
Nigeria (Early Kingdoms) N:328g
- Sol** [calendar]
Calendar (Calendar Reform) C:29
- Sol** [chemistry]
Colloid Cl:62j
- Solanaceae** [botany]
Nightshade N:329
- Solanum** [plant] So:470
- Solar battery** See Solar cell in this index
- Solar cell** [electricity]
Electric Eye (How Electric Eyes Work) E:122-123
Energy Supply (Solar Energy) E:228d
Semiconductor (Semiconductor Devices) S:233-234 with picture
Solar Energy (Capturing Solar Energy) So:472-473 with pictures
- Solar cooker**
Mirror picture on M:519
- Solar cosmic rays**
Cosmic Rays (Solar Cosmic Rays) Cl:858
Sun (Flares) So:785
- Solar day**
Day D:48
Time (Measuring Time by the Sun) T:228
- Solar eclipse** [astronomy]
Eclipse (table: Total Solar Eclipses, 1977-1992) E:35; (Solar Eclipses) E:35 with pictures

Reading and Study Guide on Socrates

Topics for study

With Plato's *Euthyphro* as a guide, describe the Socratic method. Compare and contrast it with the deductive process. Which do you think is a better way of reasoning, and why? See especially books C, E, and H below.

Why did Aristophanes choose Socrates as the target in his satire *The Clouds*? Do you think the attack was justifiable? See especially books G and I below.

Assume that you are the lawyer defending Socrates at his trial and write your final speech in his defense. See especially book F below.

Read Plato's *Phaedo* and *Apology* and reconstruct the circumstances of Socrates' death. Do you think Socrates' teachings were reasonable? Explain. Which of your ideas would you be willing to die for? Why? See especially books B, F, and H below.

Books to read

Level I

- (A) Mason, Cora C. *Socrates: The Man Who Dared To Ask*. Beacon, 1953. Biography.
- (B) Silverberg, Robert. *Socrates*. Putnam, 1965. Biography. Includes summary of Socrates' philosophy.
- (C) Turlington, Bayly. *Socrates, the Father of Western Philosophy*. Watts, 1969. Biography and examination of Socratic method.
- (D) Versenyi, Laszlo. *Socratic Humanism*. Yale, 1963. Also in paperback. Introduction to Socratic philosophy.

Level II

- (E) Coe, Frederick. *A History of Philosophy: Greece and Rome, Vol. 1, Part 1*. Doubleday, 1962. Paperback. Includes commentary on the Socratic method.
- (F) Eliot, Alexander. *Socrates: Fresh Appraisal of the Most Celebrated Case in History*. Crown, 1967. An account of the trial in dramatic form.
- (G) Levin, Richard. *The Question of Socrates*. Harcourt, 1961. Also in paperback. Contains the complete text of Aristophanes' *The Clouds* and Plato's *Apology*, and excerpts from *Phaedo* and *The Republic*.
- (H) Plato. *Last Days of Socrates, Euthyphro; Apology; Crito; Phaedo*. Penguin, n.d. Paperback.
- (I) Strauss, Leo. *Socrates and Aristophanes*. Basic Books, 1986. Explains the relationship between the two men and examines, summarizes, and explains each of Aristophanes' comedies.

Other resources

- The Death of Socrates* (film, 1969). 45 min, sound, bw, 16mm. Time-Life Films.
- The Death of Socrates* (film, 1955). "You Are There" series. 25 min, sound, bw, 16mm. Produced by CBS. Source: Contemporary.
- Man and the State: The Trial of Socrates* (film, 1971). 28½ min, sound, c, 16mm. BFA Educational Media.
- Plato's Apology* (records, n.d.). LP's, sound. Caedmon.
- Plato's Apology: The Life and Teachings of Socrates* (film, 1969). 30 min, sound, c, 16mm. Encyclopaedia Britannica Films.

See also Index information under the heading *Socrates*. For addresses of sources, see the list at the end of this volume.

872 Solar energy

Moon (Eclipses) M:647
 Sun *pictures on* So:784c
Solar energy So:471 *with pictures*
 Energy E:224 *with picture*
 Energy Supply (Solar Energy) E:226d
 Radiation (Radiant Energy as a Direct Source of Power) R:74
 Sun (How the Sun Produces Energy) So:784d
Solar Energy Research, Development, and Demonstration Act [1974]
 Solar Energy (Attempts to Harness Solar Energy) So:473
Solar flare (astronomy)
 Magnetic Storm M:55
 Sun (The Sun's Brightness) So:781; (Sun Terms) So:782; (The Sun's Stormy Activity) So:784d; (Flares) So:785 *with picture*
 Sunspot So:793
Solar furnace
 Energy Supply *picture on* E:226c
 Furnace (Industrial Furnaces) F:494
 Heat (The Sun) H:143
 Solar Energy (Capturing Solar Energy) So:472-473
Solar magnetism (astronomy)
 Sun (Solar Magnetism) So:784d
Solar method (industrial process)
 Salt (Salt from the Sea) S:86-87 *with picture*
Solar month
 Month M:639
Solar observatory
 Observatory (Optical Observatories) O:485
Solar plexus (anatomy) So:473
Solar radiation
 Sun (Sun Terms) So:782; (Solar Radiation) So:785
 Thermosphere T:195
Solar spectroscopy
 Sun (Modern Solar Study) So:787
Solar storm
 Sun (The Sun's Stormy Activity) So:784d
Solar system (astronomy) So:474 *with pictures*
 Astronomy (A Trip Through the Universe) A:800 *with pictures*; (Explaining the Solar System) A:812-813
 Earth (The Birth of the Solar System) E:16b *with diagram*
 Planet P:466 *with pictures*
 Sun So:780
 World, History of *picture on* W:357
See also the list of Related Articles in the Solar System article
Solar telescope
 Arizona *picture on* A:853
 Kitt Peak National Observatory K:287
 Sun (Modern Solar Study) So:787 *with pictures*
Solar time (calendar)
 Sidereal Time S:369
 Star (Measuring Time) So:864
 Time (Measuring Time by the Sun) T:226
Solar wind (astronomy) So:474b
 Cosmic Rays (Galactic Cosmic Rays) C:856
 Earth *diagram on* E:15
 Moon (What the Moon Is Made Of) M:646c-646f
 Solar System (The Sun) So:474
 Sun (Sun Terms) So:782; (Above the Surface) So:784c; (The Solar Wind) So:785
Solar year
 Calendar C:26
 Leap Year L:142
 Year Y:460
Solder (metal) So:474b
 Alloy (Other Alloys) A:362
 Silver *picture on* S:385
 Tin (Uses) T:229-230
Solder, Glass
 Glass (table) G:206
Soldier
 Army A:686 *with pictures*
 Army, United States (Life in the Army) A:693 *with pictures*
 GI G:170
 Mercenary M:336

Rank in Armed Services R:136
 Roman Empire (The Army) R:387-389 *with pictures*
Soldier (antomology)
 Insect (Family Life) I:222; 222k
 Termite (Life and Habits) T:136 *with picture*
Soldier's sculpture by Stenkiewicz
 United States *picture on* U:57
Soldier Field
 Stadium (table) So:644b
Soldier of Democracy (book by Davis)
 Eisenhower, Dwight David (Retirement) E:111
Soldiering (crime)
 Sabotage S:4
Soldiers (play by Hochhuth)
 German Literature (German Literature after 1945) G:140b
 Hochhuth, Rolf H:247
Soldiers and Sailors Monument
 Indianapolis (The City) I:166 *with picture*
Soldiers' bonus
 Bonus (Other Bonuses) B:373
 Hoover, Herbert Clark (The "Bonus Army") H:296
"Soldiers' Chorus" (music by Gounod)
 Opera (*Faust*) O:804
Soldiers' home
 Veterans Administration (History) V:276
Soldier's Medal
 Decorations and Medals (table) D:71;
 (Military Awards) D:89-71
Soldier's Story, A (book by Bradley)
 Bradley, Omar Nelson B:454
Soldier's Tale, The (ballet)
 Stravinsky, Igor Fyodorovich So:728
Sole (anatomy)
 Foot (Ligaments and Muscles) F:310f
Sole (fish) So:474b *with picture*
Solidades, Les (poem by Góngora)
 Góngora, Luis de G:258
 Spanish Literature (The 1600's) So:592c-592d
Solemn League and Covenant [1643]
 Covenanters C:885
Solenodon (animal) So:474b *with picture*
Soleri, Paolo (Italian architect) So:475 *with picture*
Solfatara (geology)
 Fumarole F:482
Solicitor
 Lawyer L:127
Solicitor General (office)
 Supreme Court of the United States (Pleading Cases) So:799
 Canada, Government of (The Cabinet) C:108-112b *with diagram*
 Justice, Department of (The Attorney General) J:166
Solid (geometry) So:475
Solid (physics)
 Solid So:475
 Cohesion C:80B
 Gas G:48
 Matter (States of Matter) M:247
 Molecule (Molecules and Matter) M:577
Solid fuel
See also Solid propellant in this index
 Fuel (Solid Fuels) F:476
Solid geometry
 Geometry (Solid Geometry) G:106
 Mathematics (Geometry) M:239
Solid mechanics
 Mechanics M:295
 Physics (Mechanics) P:388
Solid propellant (fuel)
 Space Travel (Overcoming Gravity) So:564-564a
 Rocket (Solid-Propellant Rockets) R:360
Solid-propellant rocket
 Guided Missile (The Engine) G:410 *with diagram*
 Rocket (Solid-Propellant Rockets) R:360 *with diagram*
Solid reamer
 Drilling Tools (Reamers) D:283
Solid South (U.S. history)
 Reconstruction (Effects of Reconstruction) R:170
Solid-state physics So:475

Electronics (Historical Development) E:161;
 (Solid State Devices) E:164b
 Physics (Structure of Matter) P:389
Solid waste
 Sanitation (Solid Waste Disposal) S:99
 Waste Disposal W:88
Soliloquy (drama)
 Shakespeare, William (Dramatic Conventions) S:278
Sollman (Manilian ruler)
 Manila (History) M:109
Solia, Juan Díaz de (Spanish explorer)
 Argentina (Colonial Years) A:620
 Río de la Plata R:323
 Uruguay (Early Years) U:180
Solitaire (bird)
 Dodo D:215
Solitaire (game) So:476
Solitario, El (Spanish author)
 Spanish Literature (Romanticism) So:592e-592f
Solitary insect
 Bee (Solitary Bees) B:159
 Wasp (Solitary Wasps) W:88 *with pictures*
Solleret
 Armor *picture on* A:684
Solo
 Music (Instrumental Solos) M:786;
 (Orchestral Music) M:787
Solo flight
 Airplane (Learning to Fly) A:227
Sololá (Guatemala)
 Guatemala *picture on* G:404b
Solomon (Biblical figure) So:476
 Cedar C:248
 Ethiopia (History) E:296
 Jerusalem (Ancient Times) J:79
 Phoenicia (The Spread of Phoenician Influence) P:356
Solomon, Proverbs of (Old Testament)
 Proverbs P:741
Solomon, Temple of See Temple in Jerusalem *in this index*
Solomon ben Isaac (French theologian)
 Jews (Persecutions of the Jews) J:101
Solomon Islands (islands, Pacific) So:476
 Amphibious Warfare (Amphibious Warfare During World War II) A:416
Solomon's seal (plant) So:476
Solomon, Dionysios (Greek poet)
 Greece (Arts) G:352a
Solon (Greek political leader) So:477
 Athens (Earliest Times) A:820-821
 Greek Literature (Lyric Poetry) G:370
 Law (The Influence of Ancient Greece) L:119
Solstice (astronomy) So:477
 Season S:218
Solti, Sir Georg (Hungarian-British conductor) So:477
Solubility
 Matter (Physical Properties) M:246
Soluble glass (chemical)
 Grinding and Polishing (Grinding Tools) G:387-388
 Water Glass W:106
Solute (chemistry)
 Solvent So:477
Solution (chemistry) So:477
 Chemistry (Solutions) C:322d
 Suspension So:809
Solution set (mathematics)
 Set Theory (in Algebra) S:250d
Solvated ion (chemistry)
 Ion and Ionization (Ions in Liquids) I:293
Solvent (chemistry) So:477
 Dry Cleaning D:291
 Lipid (Importance of Lipids) L:302-303
 Paint (Solvents) P:21
 Water (The Properties of Water) W:104b-104c *with picture*
Solvent extraction (industrial process)
 Linseed Oil L:297
 Perfume (Plant Substances) P:254
 Soybean (How Soybeans Are Used) So:557; *diagram on* So:558
 Vegetable Oil (Production) V:236
Solvent-refining process
 Petroleum (Chemical Treatment) P:307
Solyman *See* Suleiman I *in this index*

EGYPT, ANCIENT

land in Asia, and the Philistines and other invaders threatened Egypt from the eastern Mediterranean Sea.

King Seti I recaptured Palestine and Syria (see SETI I). His son, Ramses II, fought the Hittites. Ramses' long reign began strongly, but it developed inner weaknesses (see RAMSES II).

Between 1500 and 1000 B.C., the civilized world had entered the Iron Age. Egypt had no sources of iron, and found it increasingly difficult to import the metal from Asia. Egypt could not compete with armies that had iron weapons. It gradually gave up its outlying possessions, such as Palestine. The country never again wielded the same amount of power in the eastern Mediterranean area that it had enjoyed when copper was essential. The twentieth dynasty ended with Egypt divided into small states that cooperated in trade and commerce, but competed for political power.

The Period of Invasions. Non-Egyptians dominated ancient Egypt during the final period of its history. Libyan princes became the first outsiders to rule the country at this time. Sheshonk I, a Libyan, seized the Egyptian throne about 945 B.C. After about 200 years of Libyan rule, a Sudanese leader named Piankhi led an army that overthrew the Libyans. But the Assyrians ousted the Sudanese about 85 years later.

The Assyrians concentrated on other conquests, and allowed the Egyptians to regain some independence. The pharaohs reigned at Sais on the Nile Delta, from 670 to 525 B.C. These years are called the *Saitic Period*. The Egyptians tried to revive their former glory by copying old monuments and ways of doing things.

By 525 B.C., the Persians had driven the Assyrians from Egypt. They ruled the country for nearly 200 years. In 332 B.C., Alexander the Great added Egypt to his empire. When Alexander died, one of his leading generals, Ptolemy, succeeded him in Egypt. Ptolemy I took the title of King of Egypt in 306 B.C., and founded the dynasty known as the *Ptolemies*. The dynasty ended when Cleopatra died in 30 B.C.

The Ptolemies developed Egypt's resources and culture, and encouraged trade with other nations. Alexandria became the capital of Egypt. The city prospered and grew until it ranked second only to the powerful city of Rome as the center of culture and population in the Mediterranean world. The Ptolemies established academies and a great library in the city. Alexandria became the intellectual and religious center of the world.

Egypt's rulers may have succeeded too well in developing the country. The Romans became interested in Egypt as a source of grain. In 30 B.C., their armies conquered the country and made it a Roman province.

Roman and Byzantine Rule. The Roman conquest changed little of Egypt's character. A *prefect* governed the country as a personal possession of the Roman emperor. Roman demands on Egypt for more and more grain caused food shortages and widespread poverty.

Christian missionaries discovered that the Egyptians readily accepted the new religion. They emphasized self-denial and a concern with the next world rather than the present life. Egyptians who followed the teachings of Christ became known as *Copts*. The Coptic Church grew strong from A.D. 300 to 500. But Christianity gradually weakened in Egypt.

Byzantine rule began about A.D. 395, when the Roman Empire broke into western and eastern sections (see BYZANTINE EMPIRE). In 639, the Arab conqueror Amr ibn al-As began the invasion of Egypt. The Arabs took over Alexandria in 642. The country gradually became a Muslim nation. For the story of Egypt after 642, see EGYPT (History). Critically reviewed by RICARDO A. CALINOS

Related Articles in WORLD BOOK include:
BIOGRAPHIES

Akhenaton	Khufu	Seti I
Alexander the Great	Nefertiti	Thutmose III
Cleopatra	Ptolemy	Tutankhamon
Imhotep	Ramses II	

CONTRIBUTIONS TO CIVILIZATION

Alexandrian Library	Obelisk
Architecture (Beginnings)	Painting (Egyptian)
Bread (History)	Painting; picture:
Calendar	<i>Grape Harvest</i>
Clothing (Ancient Times)	Papyrus
Dancing (Ancient Times)	Pyramids
Food Preservation (picture)	Sculpture (The Beginnings)
Furniture (Ancient Egypt)	Ship (Egyptian Ships)
Geometry (History)	Sphinx
Glass (History)	Surveying
Hieroglyphic	Textile (History)

GODS AND GODDESSES

Amon	Horus	Osiris	Set
Anubis	Isis	Re	Thoth

OTHER RELATED ARTICLES

Abu Simbel,	Copts	Mummy	Rosetta Stone
Temples of	Hyksos	Music	Scarab
Abydos	Irrigation	(picture)	Thebes
Alexandria	Kush	Mythology	(Egypt)
Animal Worship	Lotus	Nile River	Valley of
Apis	Memnon	Nubia	the Kings
Asp	Memphis	Pharaoh	

Outline

- I. The Land and Its Resources
 - A. Location and Size
 - B. Natural Resources
 - C. Climate
- II. Life of the People
 - A. The People
 - B. Language
 - C. Family Life
 - D. City Life
- III. Work of the People
 - A. Agriculture
 - B. Manufacturing
 - C. Mining
 - D. Trade and Transportation
- IV. Activities of the People
 - A. Education
 - B. Religion
 - C. The Arts
 - D. The Sciences
- V. Government
- VI. History

Questions

- Why has Egypt been called the *gift of the Nile*?
- How did hieroglyphic writing differ from hieratic?
- What were Egyptian students required to learn in the school for scribes?
- Why did the Egyptians build pyramids?
- How long did ancient Egypt survive as a center of civilization?
- When did ancient Egypt reach the height of its power? What were some of its outlying possessions?
- Why did the ancient Egyptians call their country the *Two Lands*?
- What are some major contributions of the Egyptians in the arts and sciences?
- When did the Egyptians begin to use camels for transportation?
- What was the chief occupation in ancient Egypt?

Reading and Study Guide

See *Egypt, Ancient*, in the RESEARCH GUIDE/INDEX, Volume 22, for a Reading and Study Guide.

EGYPT, ANCIENT

Trade and Transportation. Egyptian ships sailed to many ports of the civilized world, both as peaceful traders and as conquerors. They traveled northwest into ports in the Aegean Sea, and northeast to Palestine, Phoenicia, Syria, and the land of the Hittites in Asia. To the south, they traded with peoples along the eastern coast of Africa. According to tradition, the Egyptians dug a canal to link the eastern part of the Nile Delta with the Red Sea as early as the 1900's B.C. Some historians believe that the Egyptians were the first people to sail the dangerous Cape of Good Hope route around the southern tip of Africa. Egyptian caravans made many expeditions to Sudan.

The ancient Egyptians traded by *bartering* (exchanging goods for other goods). They bartered their copper, grain, linen, papyrus, and fine-grained stones for woods such as cedar, cypress, fir, and pine from Lebanon. They also bartered for gold, hides, ivory, ostrich feathers, and tropical woods in Punt, southeast of Egypt on the Red Sea. Farmers often traded their barley and flax locally for small manufactured goods, such as magical charms, metal knives, sandals, and storage pots. The Egyptians did not use coins until about 300 B.C.

Galley ships and sailing vessels carried passengers and cargoes. The Egyptians made small boats from their limited supply of wood. They made seagoing vessels from cedar and fir imported from Asia.

Attendants at the royal court carried nobles and members of the royal family from place to place in sedan chairs. After the Egyptians began using horses, about 1700 B.C., they traveled in chariots. Donkey caravans carried people and goods in the desert regions. The Egyptians did not begin to use camels until about 500 B.C. The government used messengers to keep in touch with the distant parts of the widespread empire.

Activities of the People

Education. Most Egyptian boys learned their work from their fathers, or as apprentices in various trades. Boys of royal and wealthy families were trained to become priests or government officials. At an early age, they were placed in the schools for scribes at the capital. Priests controlled the schools. They required the students to memorize classic texts, take dictation, and learn to use about 700 characters of the Egyptian language. They also taught literature. Schoolboys practiced their writing by copying stories and proverbs. Archaeologists have found copybooks that these boys used for practicing handwriting. But the number of persons who could read and write apparently was small.

Religion appeared in every part of life in ancient Egypt. The Egyptians believed that gods and goddesses took part in every human activity from birth to death. For the Egyptian, the good life depended on obeying the commands of the gods. After a person died, the gods would judge how well the person had obeyed their directions. The Egyptians believed that their king was a god who could keep the country prosperous by his divine powers.

In the earliest period, the Egyptians worshiped the forces of nature, such as wind and water. As towns grew up, each adopted its own special god. In one part of the delta, the people worshiped Horus, the god of

heaven (see HORUS). In another district, the people worshiped Osiris, the god of vegetation, who later became the god of the dead (see OSIRIS). Heliopolis, near Cairo, was the center for the worship of the sun god Re, or Ra (see RE). Heliopolis means *city of the sun* in Greek. About 2500 B.C., priests at Heliopolis developed the worship of Re as the nation's first state religion. Other members of Re's divine family included Osiris and his wife, Isis; Set, the evil brother of Osiris, and his wife Nephthys; Shu, god of air; Tefnut, goddess of moisture; Geb, god of earth; and Nut, goddess of the sky (see MYTHOLOGY [picture: The Separation of the Earth from the Sky]).

The people of Thebes worshiped Amon, the god of the air and fertility. After Thebes became the political center of the empire, Amon became the empire's chief god. The people identified Amon with the sun god, Re, and Amon became known as Amon-Re (see AMON).

The Egyptians believed that certain animals might serve individual gods in a special way. For example, they regarded the ram as acceptable to Amon, and chose one ram to be the temple animal of that god. Other sacred animals included the baboon, bull, cat, crocodile, and jackal.

The people of ancient Egypt took great care in preparing for life after death. They denied that death ended the existence of a person who had led a good life. They believed that the next world would be like Egypt in its richest and most enjoyable form. They built stone tombs and filled them with clothing, food, furnishings, and jewelry for use in the next world. They embalmed their dead and wrapped the bodies in layers of cloth. Preserved bodies were called *mummies* (see EMBALMING; MUMMY).

The Egyptians carved inscriptions on the walls of their tombs. They also wrote on the insides of the coffins. They placed papyrus copies of the *Book of the Dead* in the tombs to protect the spirits of the dead. The *Book of the Dead* contained spells and prayers. See HIEROGLYPHIC (pictures).

The priests conducted the rituals and guarded the temples. They acquired much political power. For example, the king did not make them pay the *corvée*, a tax in labor that furnished the government with workers. The priests used thousands of people to work in the temples and divine lands.

The Arts reached full development early in the history of Egypt. All the arts, including literature, were influenced by religion. Egyptian literature covered a wide range of subjects, from hymns to fairy tales.

The Egyptians planned their monuments to last forever. Their greatest architectural achievement was the construction of the pyramids. The Great Pyramid at Giza (Al Jizah) contained about 2,300,000 stone blocks. The blocks averaged about 5,000 pounds (2,300 kilograms) apiece in weight. Workmen shaped each stone so carefully that the blocks fitted together with only paper-thin spaces between them.

The Egyptians also built towering temples with thick walls that sloped in gently toward the top. Examples of such architecture include the temples at Karnak and Luxor. See ARCHITECTURE (Beginnings); PYRAMIDS.

Painting and sculpture in Egypt went through several phases. The earliest paintings and relief sculptures had a flattened appearance, and statues had a squared-off

General Index

Lu - Me 19

Mayor	51	Merchant fleet	131	Welfare costs	217
Population	241	Mail	558, 729	Mesaryk, Thomas G.	529
Luge (slidding)	628	Aid, U.S.	603	Mass, unit of	803-805
Lumber—		Ambassadors	602	Massachusetts	687
Canadian production	156	Area, capital, pop.	558	(see States, U.S.)	
Producer price index	96	Malta	558	Admission, area, capital	458, 687
Lusitania sunk (1915)	711, 748	Ambassadors	602	Agriculture	154-157
Luther, Martin	731	Area, capital, pop.	558	Birth, death statistics	953, 955
Lutheran Churches	350, 353, 358-359	Mamelukes	729	Budget	85
Luxembourg	556	Mammoth Cave, Ky.	462	Construction, value of	687
Aid, U.S.	603	Man, Isle of	443	Debt	95
Ambassadors	601	Manchuria	526	Ethnic, racial distr.	687
Area, capital, population	556	Manhattan (1624)	638, 704	Farm statistics	151, 154
Head of State	556	Addresses, street	671	Governor	49, 318
Luzon Is., Philippines	443	Manila Bay battle (1898)	747	Harvard Univ.	177
Lyricists (popular songs)	382	Manila, P.I.	589	Income, per capita	108, 687
		Manitoba, Can.	500	Interest, laws & rates	83
		Tax, income	70	Lake, largest	449
		Manson, Charles (1971)	716	Marriage, divorce laws	963, 964
		Manua Islands (Samoa)	704	Military contracts	95
		Manufacturers	120-125	Name, origin of	460
		Employees, firms (number)	120	Population	
		Exports, imports	129	—Cities and towns	228-230
		Index numbers	96	—Counties, county seats	250
		Profits by industry group	122	Presidential elections	276
		Workers statistics	120, 121	State officials	49, 318
		(see Specific Industries)		Taxes	71-77, 95
		Maori (New Zealand)	563	Tourist expenditures	687
		Marxism	745	Unemployment benefits	69
		Maps, World	485-496	U.S. aid	95
		Marathon—		Vital statistics	952-969
		Boston marathon	834	Welfare costs	217
		N.Y.C. 1978	903	Masters Bowling tournament	864
		Olympic records	820	Mathematics—	
		Marconi (1896-1901)	815	Circles, areas of	811
		Mardi Gras, New Orleans	686, 793	Formulas	811
		Mariana Islands	704	Fractions, decimals	810
		Marine Corps, U.S.—		Roots (square, cube)	812
		China, Nicaragua (1927)	712	Mauritania, Rep.	558-559
		Generals (active duty)	35, 325	Aid, U.S.	603
		Insignia	328	Ambassadors	602
		Organization bases	326	Military coup	937
		Pay scale, allowances	330-331	Mauritius	558
		Training Centers	28	Maurya dynasty	722
		Women's branch	332	May Day	793
		Marine disasters	748	Mayaguez, U.S. merchant ship (1975)	717
		Maritime Day, Nat'l	794	Mayas	722, 727
		Market price indexes	96	Mayflower (1620)	706
		Marquesas Islands (Fr.)	443, 536	Mayors	478
		Marriage—		Address, form of	579
		Age, lawful, by state	963	Black, first (1867)	715
		Blood test requirements	963	Cleveland's mayor	943
		Canada—		McCarthy, Sen. Joseph (1954)	714
		Requirements	965	McKinley, Mt.	407
		Statistics	507	McKinley, Wm.	296-303, 307-308
		Number, rate	953	Assassination (1901)	308, 711, 754
		Wedding anniversary list	953	Mead Lake	448
		Mars (planet)	760	Mean time	770
		Morning, evening stars (1979)	765	Measures	803-909
		Positions by months (1979)	756-758	Energy	117
		Rising, setting (1979)	763	Meats—	
		Viking I and II (1976)	718	Consumption	153, 158
		Marshall Islands	443, 704-705	Exports, imports	129
		Marshall Plan (1947)	713	Inspection Act (1906)	711
		Martha's Vineyard (area)	443	Nutritive values	162
		Martinique	443, 536	Price indexes	155
		Mt. Pelee	536	Production	153
		Maryland	686-687	Medal of Honor	328
		(see States, U.S.)		Medes	721, 722
		Admission, area, capital	458, 687	Medicare	63-64
		Agriculture	154-157	Medical expenses (1966)	715
		Birth, death statistics	953, 955	Medicine—	
		Budget	85	Anesthesia (1842)	709
		Catholic colony (1634)	706	Awards	407-408
		Chamber of Commerce, address	687	Discoveries	816-817
		Construction, value of	687	Diseases (death, rates)	953, 962
		Cumberland Road (1811)	708	Heart	962
		Debt	95	Hospital statistics	958, 959, 960
		Ethnic, racial distr.	686	Mayo Clinic (Minn.)	688
		Fair	687	Nursing school (1873)	710
		Farm statistics	151, 154	Signs, abbreviations	811
		Governor	49, 318	Mediterranean Sea—	
		Income, per capita	108, 687	Area, depth	442
		Interest, laws & rates	83	Islands, areas	443
		Lake, largest	449	Mellon art collection	687
		Marriage, divorce laws	963, 964	Melville Island (Canadian)	443
		Military contracts	95	Memorable dates in U.S. history	706-718
		Name, origin of	460	Memorial Day	792
		Population		Confederate	793
		—Cities and towns	228	Memorials, National	463
		—Counties, county seats	250	Memphis, Tenn.	633
		Presidential elections	275-276	Buildings, tall	674
		State officials	49, 318	Mayor	52
		Taxes	71-77, 95	Police roster	969
		Tourist expenditures	687	Population	240
		Unemployment benefits	69	Strike ended (Police, Firemen)	943
		U.S. aid	95	Men—	
		Vital statistics	952-969	Births, deaths (U.S.)	952
				Height, weight	957

— M —



286 Grafton — Greenwood

Table with columns: Page, Name, Pronunciation, Region, Lat., Long., Page, Name, Pronunciation, Region, Lat., Long., Page, Name, Pronunciation, Region, Lat., Long. Lists geographical locations from Grafton to Greenwood.

at; andi; rate; senate; arni; ask; sofa; fare; ch-choose; dh-as th in other; be; event; bet; recant; crater; g-go; gh-guttural g; bit; i-short neutral; rld; k-guttural k as ch in German ichi



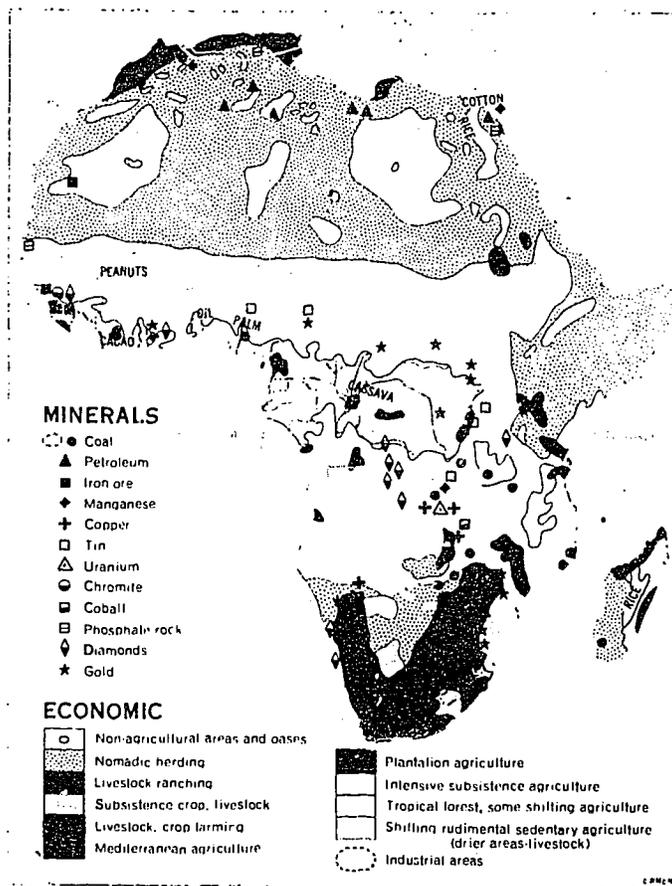


Illustration 18. HAMMOND WORLD ATLAS

MARYLAND

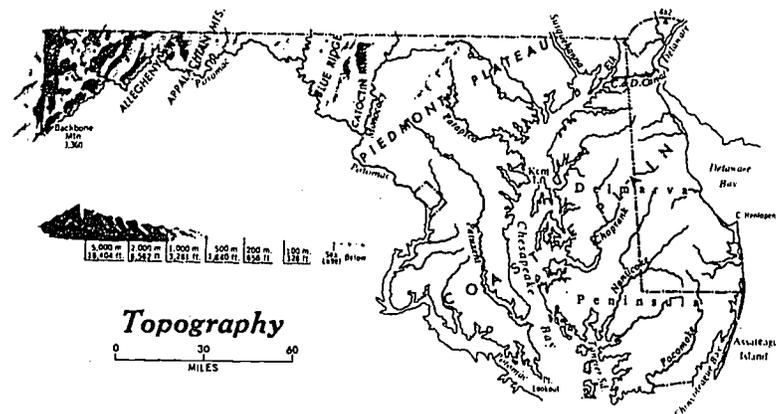
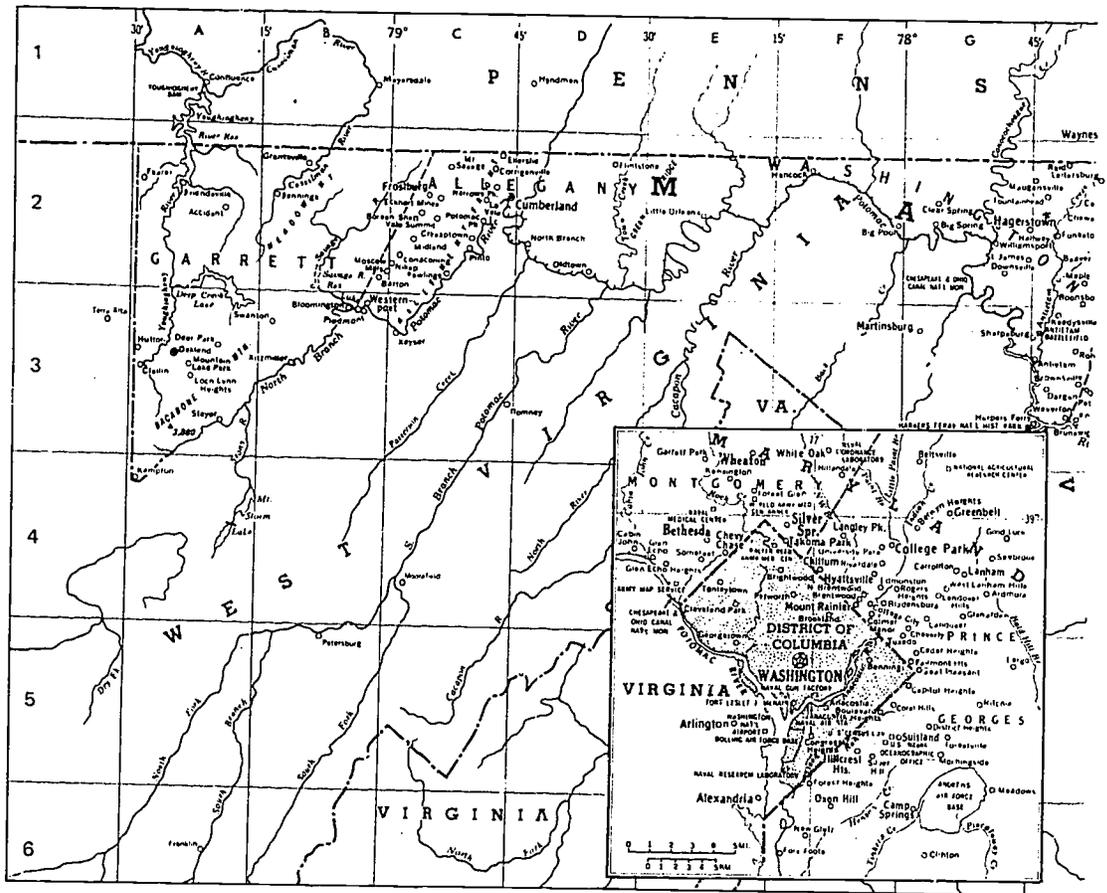
COUNTIES

- Allegany 64 044 C 2
- Anne Arundel 297 539 M 4
- Baltimore 621 077 M 3
- Baltimore (city county) 905 759 M 3
- Calvert 70 682 M 6
- Cecil 53 291 P 2
- Charles 47 678 K 6
- Dorchester 29 405 O 7
- Frederick 84 927 A 2
- Garret 21 476 J 3
- Harford 115 378 N 2
- Howard 61 911 L 4
- Kent 16 146 O 3
- Montgomery 522 809 J 4
- Prince Georges 660 567 L 5
- Queen Annes 18 422 P 4
- Saint Marys 47 368 M 7
- Somerset 18 928 R 8
- Talbot 23 692 O 5
- Washington 103 829 G 2
- Wicomico 54 236 R 7
- Worcester 24 442 H 8

20626 Colons Point 310	M 8	20751 Deale 1 059	M 5	21043 E. Fort Detrick 9 526	L 3	21734 F. F. Patton 1 051	H 2	21740 Hagerstown 35 862	G 2
21043 Columbia 8 815	L 5	21821 Deal Island 800	L 5	21727 Emmitsburg 1 532	P 8	20760 Gaithersburg 8 344	K 4	21740 Highway 6 106	G 2
20627 Compton 500	M 7	21550 Deer Park 310	A 7	21221 Essex 38 193	A 3	21635 Gaena 361	P 3	20850 Hagerline 5 812	K 4
21918 Conowingo 150	K 3	19940 Demar 1 191	O 2	21824 E. Ave 350	R 7	21054 Gampson 4 460	M 4	21074 Hampstead 9 61	L 2
21723 Coopers Hill 497	O 4	20628 Denton 1 561	P 5	21620 Fairlee 300	P 5	20766 Garmen Park 1 258	E 3	21750 Hancock 1 832	F 2
20627 Coral Hills 7 105	G 5	20855 Denwood 450	O 5	20027 Fairmont Heights 1 972	K 4	21055 Garrison 950	L 3	21201 Hanover 500	M 4
21625 Cordova 365	O 5	20753 Dickerson 500	C 2	21007 Forest Heights 1 900	N 2	20769 Germantown 260	J 4	21787 Harney 250	K 2
21524 Corriganville 550	C 2	20028 District Heights 8 424	G 5	21632 Federal Square 91*	G 5	21829 Greenlee 850	S 8	21078 Havre de Grace 9 791	O 2
20722 Cottage City 193	F 4	21710 DuPont 273	J 7	21061 Leaside 9 929	M 4	20801 Glenarden 4 502	L 7	21830 Henning 705	L 3
20611 Cott Station 1 740 675	L 2	21795 Duneside 255	N 2	21048 F. F. Patton 950	L 3	21057 Glen Arm 350	N 3	21080 Henryford 400	H 7
21788 Creagstown 140	J 2	20630 Dyarville 450	G 8	21634 F. F. Patton 595	N 2	20768 Glen Burne 38 608	M 4	21111 Herford 680	M 2
21525 Crelin 500	A 3	21154 Olden 366	N 2	21530 F. F. Patton 395	N 2	20768 Glen Echo 297	E 4	21753 Highfield 500	J 2
21502 Cresapown 1 721	C 2	21222 Dundas 85 377	P 9	20907 Forest Heights 3 600	M 6	20013 Hillcrest Heights 2 025	E 4	21001 Hillcrest Heights 24 037	F 5
21817 Crisfield 3 078	P 9	20668 Eagle Harbor 200	O 8	21050 Forest Hill 450	P 6	21737 Glenmont 400	L 3	21001 Hillcrest Heights 24 037	F 5
21627 Crochran 150	M 4	21146 Eagle Heights 1 500	M 4	20013 Fort Fife 700	O 5	21071 Gwynn Pleistown 14 037	L 3	21636 Good Luck 1 584	L 6
21113 Croton 4 478	M 4	21631 East New Market 251	P 6	20735 Fort Washington 1 650	C 2	20715 Good Luck 1 584	H 2	21788 Gracewood 300	J 2
21032 Crossville 1 900	M 4	21528 Easton 6 809	H 3	21740 Fountain Head 2 029	N 2	21163 Granite 517	B 2	20636 Hollywood 500	M 7
21628 Cumberston 375	P 4	21528 Easton 6 809	H 3	21761 Frederick 23 641	L 3	21638 Granite 517	B 2	20639 Huntingtown 450	M 6
21502 Dameron 29 724	D 2	21040 Edgewood 8 551	P 4	21053 Friendship 500	P 2	20770 Greenbelt 18 199	G 4	21642 Hoodsville 300	O 7
20628 Darnestown 2 638	N 8	21078 Edmonson 1 441	K 3	21531 Friendship 566	M 4	21122 Greenhaven 1 841	M 4	21642 Hoodsville 300	O 7
20629 Darnestown 300	P 8	21920 E. M. 500	P 2	21532 Frostburg 7 327	P 2	21072 Greenmount 325	L 2	21642 Hoodsville 300	O 7
21820 Darnestown 500	N 8	21227 E. Ridge 4 900	M 4	21826 Fullard 2 315	C 2	21639 Greensboro 1 173	P 5	21642 Hoodsville 300	O 7
21545 Dargan 245	H 2	21921 E. Ridge 4 900	M 4						
21034 Darlington 800	J 1	21529 F. F. Patton 950	M 5						
20760 Darnestown 950	J 4								
21035 Davidsonville 250	M 5								

CITIES AND TOWNS

Zip	Name/Pop.	Key
21001	Aberdeen 12 375	O 2
21009	Abingdon 3 000	N 2
21520	Accident 237	L 6
20607	Accokeek 450	A 6
21710	Adamstown 263	H 3
21810	Allan 200	R 7
21043	Alvany 2 314	L 4
21401	Annapolis (cap) 19 29 592	M 5
20701	Annapolis Junction 775	M 4
21782	Antietam 150	H 3
20608	Aquasco 950	L 6
20785	Aromare 500	K 4
20015	Aspen Hill 16 799	G 4
21201	Baltimore 905 759	M 3
Baltimore	12 070 670	M 3
21607	Barclay 187	P 4
20703	Barnesville 162	J 4
20610	Barstow 500	M 6
21521	Barton 723	B 2
21901	Bayview 250	P 2
21014	Bel Air 6 307	N 2
20611	Bel Air 675	O 6
21662	Beltvue 300	O 7
20705	Beltville 8 912	G 3
20612	Benedict 700	M 6
21911	Berlin 1 942	T 4
20740	Berwyn Heights 3 934	G 4
20014	Bethesda 71 621	P 4
21609	Bethlehem 200	D 6
21610	Betterton 327	O 3
21611	Bishops Head 250	O 7
21813	Bishopville 300	O 7
21814	Blairstown 450	H 3
20710	Bladensburg 7 488	G 4
21523	Bloomington 235	B 3
21713	Boonsboro 1 410	H 2
21532	Borden Shatt 200	B 2
21020	Boring 283	L 2
20027	Boulevard Heights 500	F 5
20678	Bowens 250	M 6
20715	Bowie 35 028	L 4
20720	Boys 300	J 4
21612	Borman 500	N 5
20613	Brandywine 525	L 6
20722	Brentwood 3 426	F 4
21115	Brownsville 185	H 3
21716	Brunswick 3 566	H 3
21717	Buckeystown 400	J 3
21718	Burkittsville 221	H 3
20730	Buttonsville 3 000	L 4
20610	Bushwood 675	L 4
21023	Butler 150	M 2
20731	Cabin John 2 500	M 4
20619	California 350	M 7
20705	Calverton 6 453	L 4
21613	Cambridge 11 595	O 6
20031	Campo Springs 22 776	G 6
20027	Capitol Heights 2 852	G 5
21024	Carroll 510	N 2
20780	Carrollton 13 395	G 4
21025	Carrollton 174	L 2
21034	Castleton 675	N 2
21786	Catoctin Furnace 516	J 2
21228	Catonsville 54 812	M 3
21720	Cavetown 425	H 2
21913	Cecilton 381	P 3
20767	Cedar Grove 300	K 4
20027	Cedar Heights 6 049	G 5
21617	Centerville 1 853	O 4
21816	Chance 500	P 8
20621	Chapco 300	M 7
21914	Charlestown 721	P 2
20622	Charlottesville 700	M 7
21027	Chase 900	N 3
20623	Cheslenham 530	L 6
21921	Cherry Hill 214	P 2
20732	Chesapeake Beach 934	N 6
21915	Chesapeake City 1 031	N 2
21619	Chesler 950	P 5
21620	Cheslerdown 3 476	O 4
20785	Chesver 6 696	G 4
20015	Cherry Chase 16 424	E 4
21721	Chesville 350	H 2
20783	Chillum 35 656	F 4
21623	Church Hill 247	O 4
21038	Churchville 500	N 2
21624	Claborn 150	N 2
20734	Clarksburg 400	J 4
21029	Clarksville 500	L 4
21722	Clear Spring 499	G 2
20624	Clements 800	L 6
20735	Clinton 1 900	G 6
21030	Cockeysville 2 900	M 3
20740	College Park 26 156	F 4
20722	Colmar Manor 1 715	F 4
21917	Colts 500	O 2



Abbreviations of Magazines Indexed

<p>Am Girl - AMERICAN GIRL Ariz Highw - ARIZONA HIGHWAYS Art & Man - ART & MAN Arts & Act - ARTS AND ACTIVITIES Badger Hist - BADGER HISTORY Beaver - THE BEAVER Boys' Life - BOYS' LIFE Canadian Ch M - CANADIAN CHILDREN'S MAGAZINE Child D - CHILDREN'S DIGEST Child Life - CHILD LIFE CHILDREN'S PLAYMATE: See Playmate Co-ed - CO-ED Cricket - CRICKET Curious Nat - CURIOUS NATURALIST Current Ev - CURRENT EVENTS Current H-1 - CURRENT HEALTH 1 Current Sci - CURRENT SCIENCE Daisy - DAISY Ebony Jr - EBONY JR! Explorer - SCHOLASTIC NEWS EXPLORER EYE - MY WEEKLY READER EYE Highlights - HIGHLIGHTS FOR CHILDREN Horn Bk - HORN BOOK Humpty D - HUMPTY DUMPTY'S MAGAZINE FOR LITTLE CHILDREN Ill. Hist - ILLINOIS HISTORY Jack & Jill - JACK & JILL Jr Schol - JUNIOR SCHOLASTIC Ks Sch Nat - KANSAS SCHOOL NATURALIST Md Conserv - MARYLAND CONSERVATIONIST Md Mag - MARYLAND MAGAZINE Model Airpl N - MODEL AIRPLANE NEWS MY WEEKLY READER, Ed. 4: See Parade MY WEEKLY READER, Ed. 5: See EYE Nat Canada - NATURE CANADA Nat Geog M - NATIONAL GEOGRAPHIC MAGAZINE</p>	<p>Nat Geog World - NATIONAL GEOGRAPHIC WORLD Nat Wildlife - NATIONAL WILDLIFE News Cit - SCHOLASTIC NEWS CITIZEN NEWS EXPLORER: See Explorer News Trails - SCHOLASTIC NEWS TRAILS NewsTime - SCHOLASTIC NEWSTIME Owl - OWL MAGAZINE Pacific S - PACIFIC SEARCH Parade - MY WEEKLY READER NEWS PARADE Pet News - PET NEWS Pict Ed - PICTORIAL EDUCATION Playmate - CHILDREN'S PLAYMATE Plays - PLAYS Pop Mech - POPULAR MECHANICS Pop Sci - POPULAR SCIENCE Ranger Rick - RANGER RICK'S NATURE MAGAZINE Read - READ Roots - ROOTS Sci World - SCIENCE WORLD Search - SCHOLASTIC SEARCH Sprint - SCHOLASTIC SPRINT Sr Schol - SENIOR SCHOLASTIC Sr Wkly R - SENIOR WEEKLY READER Texas Hist - TEXAS HISTORIAN Wee Wisdom - WEE WISDOM Weewish Tree - WEEWISH TREE Wis. Trails - WISCONSIN TRAILS World Extra - KNOW YOUR WORLD EXTRA Yorker - THE YORKER Young Athlete - YOUNG ATHLETE Young Miss - YOUNG MISS Young World - YOUNG WORLD Your World - YOU AND YOUR WORLD Zoonooz - ZOONOOZ</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

#easy reading material

Abbreviations for Months

Ja - January	Ap - April	Jl - July	O - October
F - February	My - May	Ag - August	N - November
Mr - March	Je - June	S - September	D - December

Published monthly except June and July; bi-monthly, April-May
 Semi-annual cumulations in February and August
 Subscription price: \$12.00 per year; \$15.00 per year effective April 15, 1975
 \$1.00 extra for Canada & foreign countries; \$2.00 extra effective April 15, 1979

Gladys Cavanagh, Editor
 2020 University Avenue, Suite 6
 Madison, Wisconsin 53705

SUBJECT INDEX TO CHILDREN'S MAGAZINES

- DREAMS**
 The meaning of dreaming.
 R.Lindsay. Child D 29:58-64
 Mr '79
- DRESS:** see Clothing; Fashion
- DRIVER EDUCATION:** see Automobile
 Drivers
- DROUGHTS:** see also Irrigation
- DRUGS:** see also Medicine; Narcotics;
 Penicillin
 Medicines from the sea.
 J.O'Neill-Richter. Sci World
 35:6-7 F 8 '79
 New drug fights bone disease.
 Current Sci 64:4 Mr 14 '79
- DRUGS AND YOUTH:** see Narcotics and
 Youth
- DRY LANDS:** see Deserts
- DUCKS**
 Enhancing the wood duck population.
 Md Conserv 55:7 Ja-F '79
- DWELLINGS:** see Houses
- DYES AND DYEING**
 New use for an office discard.
 C.C.Allrutz. Arts & Act
 85:38-9 Mr '79
- EARTH**
 Birth of the earth, pt.4. Pict Ed
 53:9-10+ Ja '79; Pt.5. Pict Ed
 53:9-10+ F '79
- ECLIPSES**
 Follow the sun! News Cit 47:7
 F 15 '79
 Solar eclipse is coming soon.
 NewsTime 51:4 F 22 '79
 Sun to be eclipsed this month.
 Parade 60:3 F 21 '79
 Sun's blackout. Sr Wkly R 33:3
 F 21 '79
- ECONOMICS:** see also Business; Con-
 sumer Education; Cost and Stan-
 dard of Living; Factory System;
 Labor; Money; Unemployment;
 U.S. - Economic and Social
 Conditions
- EDISON, THOMAS ALVA:** see also Elec-
 tricity
- EDUCATION:** see also Consumer Educa-
 tion; Examinations; Handicapped;
 Marine Education; Museums;
 Physical Education; Safety;
 Schools; Sex Education
- EDUCATION, HIGHER:** see Universities
 and Colleges
- EGYPT - ANCIENT:** see also Mummies
 Behind King Tut's treasures.
 J.O'Neill-Richter. Sci World
 35:28-9 F 22 '79
- EINSTEIN, ALBERT, 1879 - 1955**
 Einstein: still a giant in science.
 Current Sci 64:18-9 Mr 14 '79
- EINSTEIN, ALBERT, 1879 - 1955 (cont.)**
 Einstein's brain. Current Ev
 78:28 Mr 14 '79
- ELECTRIC APPLIANCES - REPAIR**
 Appliance clinic. Pop Mech
 151:62 Mr '79
- ELECTRICITY:** see also Electronics;
 X rays
 He lights up your life. Current
 Ev 78:29 Mr 14 '79
 Thomas Edison: still turning us on
 after 100 years. EYE 57:4-5
 Mr 21 '79
- ELECTRONICS**
 From the labs: high-technology
 prizewinners. S.Renner-Smith.
 Pop Sci 214:19-20 Mr '79
 Roll your own electronic dice.
 W.Sikonowiz. Pop Mech 151:14+
 Mr '79
- ELEMENTS - CHEMICAL:** see Chemical
 Elements
- ELEPHANTS**
 Mother elephant's giant baby.
 S.Markle. Highlights 34:12-3
 Mr '79
- ELIOT, THOMAS STEARNS, 1888 - 1965**
 Thomas Stearns Eliot. Parade
 60:4 F 28 '79
- ELVES:** see Fairies
- EMANCIPATION OF SLAVES:** see Slavery
- EMBRYOLOGY:** see also Reproduction
- EMOTIONS:** see also Prejudices; also
 kinds of emotions, as Love
 Crying: the best medicine? (Per-
 sonally speaking) S.Bank.
 Current Ev 78:16 F 28 '79;
 Current Sci 64:15 F 28 '79
- EMPLOYMENT:** see also Careers;
 Unemployment
 Are sales or office jobs for you?
 Your World 11:12 Mr 21 '79
 Is a transportation job in your
 future? Your World 11:12
 Mr 7 '79
 Money-making ideas for you.
 J.A.Lowery. Ebony Jr 6:19-21
 Mr '79
- ENERGY CRISIS:** see Conservation of
 Energy
- ENGINEERING:** see also Building;
 Mining; Railroads
- ENGINES**
 Engine review round-up.
 P.G.F.Chinn. Model Airpl N
 98:46-9+ Mr '79
 How to stop stalling. M.Schultz.
 Pop Mech 151:128-30 Mr '79
 New Citroen engine has no distri-
 butor. D.Scott. Pop Sci
 214:92-3 Mr '79

MALEKULA (Island), New Hebrides:

Taboos and Magic Rule Namba Lives. By Kal Muller. 57-83, Jan. 1972

MALI:

Foxes Foretell the Future in Mali's Dogon Country. By Pamela Johnson Meyer. 431-448, Mar. 1969

Freedom Speaks French in Ouagadougou. By John Scofield. 153-203, Aug. 1966

The Niger: River of Sorrow, River of Hope. By Georg Gerster. 152-189, Aug. 1975

The **MALIGNED** Coyote. By Hope Ryden. Photos by author and David Hiser. 278-294, Aug. 1974

MALLE, LOUIS: Photographer:

Calypso Explores for Underwater Oil. By Jacques-Yves Cousteau. 155-184, Aug. 1955

MALLORCA (Island), Balearic Islands. See Majorca

MALTA:

Democracy's Fortress: Unsinkable Malta. By Ernle Bradford. Photos by Ted H. Funk. 852-879, June 1969

MAMMALS:

African Wildlife: Man's Threatened Legacy. By Alan C. Fisher, Jr. Photos by Thomas Nebbia. 147-187, Feb. 1972

A Continent's Living Treasure. Paintings by Ned Seidler. 164-167

An Artist's Glimpses of Our Roadside Wildlife. Paintings by Walter A. Weber. 16-32, July 1950

Contents: Abert's Squirrel, Badgers, Black Bears, Coyotes, Moose, Pronghorn Antelopes, Skunks, Virginia Deer

Exploring the Mind of Ice Age Man. By Alexander Marshack. 64-89, Jan. 1975

Included: Mammals of the Ice Age as depicted in the art of Cro-Magnon man

"Ice Age Mammals of the Alaskan Tundra," painting supplement. Map of Canada. Mar. 1972

London's Zoo of Zoos. By Thomas Garner James. 771-786, June 1953

Mammals of the Alaskan Tundra. 329-337, Mar. 1972

Orphans of the Wild. By Bruce G. Kinloch. 683-699, Nov. 1962

Portrait of a Fierce and Fragile Land. By Paul A. Zahl. 303-314, Mar. 1972

Roaming Africa's Unfenced Zoos. By W. Robert Moore. 353-380, Mar. 1950

Contents: Antelopes, Buffaloes, Elephants, Gazelles, Giraffes, Gorillas, Hippopotamuses, Leopards, Lions, Okapi, Rhinoceroses, Wart Hogs, Zebras

The Romance of American Furs. By Wanda Burnett. 379-402, Mar. 1948

Contents: Beaver, Chinchillas, Foxes, Minks, Muskrats, Seals

Seeking Mindanao's Strangest Creatures. By Charles Heizer Wharton. 389-408, Sept. 1948

Contents: Cloud Rat, Flying Lemur, Tarsier, Tree Shrew

The Wild Animals in My Life. By William M. Mann. 497-524, Apr. 1957

Contents: Animals of the National Zoological Park
Wild Animals of North America. Book announced. 554-557, Oct. 1960

Wildlife In and Near the Valley of the Moon. By H. H. Arnold. Photos by Paul J. Fair. 401-414, Mar. 1950

MAMMALS—Continued

Contents: Deer, Elk, Ground Squirrels, Raccoons
Wildlife of Everglades National Park. By Daniel B. Beard. Paintings by Walter A. Weber. 83-116, Jan. 1949

Contents: Bobcat, Manatee, Marsh Rabbit, Otter, Porpoise, Puma, Raccoon

Wolves Versus Moose on Isle Royale. By Durward L. Allen and L. David Mech. 200-219, Feb. 1963

The Wonder City That Moves by Night. By Francis Beverly Kelley. 289-324, Mar. 1948

Zoo Animals Go to School. By Marion P. McCrane. Photos by W. E. Garrett. 694-706, Nov. 1956

See also names of individual species; and Paleontology

MAMMOTH:

Wyoming Muck Tells of Battle: Ice Age Man vs. Mammoth. By Cynthia Irwin, Henry Irwin, and George Agogino. 828-837, June 1962

MAN, Isle of, Irish Sea:

The Manx and Their Isle of Man. By Veronica Thomas. Photos by Ted H. Funk. 426-444, Sept. 1972

MAN, Prehistoric:

Adventures in the Search for Man (*Kenyapithecus wickeri*). By Louis S. B. Leakey. Photos by Hugo van Lawick. 132-152, Jan. 1963

A Bold New Look at Our Past. The Editor. 62-63, Jan. 1975

Ethiopia Yields First "Family" of Early Man. By Donald C. Johanson. Photos by David Brill. 790-811, Dec. 1976

Exploring 1,750,000 Years Into Man's Past. By L. S. B. Leakey. Photos by Robert F. Sisson. 564-589, Oct. 1961

Exploring the Mind of Ice Age Man. By Alexander Marshack. 64-89, Jan. 1975

Finding the World's Earliest Man (*Zinjanthropus boisei*). By L. S. B. Leakey. Photos by Des Bartlett. 420-435, Sept. 1960

Ice Age Man, the First American. By Thomas R. Henry. Paintings by Andre Durenceau. 781-806, Dec. 1955

In Search of Man's Past at Lake Rudolf. By Richard E. Leakey. Photos by Gordon W. Gahan. 712-734, May 1970

The Leakey Tradition Lives On. By Melvin M. Payne. 143-144, Jan. 1973

The Leakeys of Africa: Family in Search of Prehistoric Man. By Melvin M. Payne. 194-231, Feb. 1965

Included: *Homo habilis*, *Kenyapithecus*, *Proconsul*, *Zinjanthropus*

Lifelike Man Preserved 2,000 Years in Peat. By P. V. Glob. 419-430, Mar. 1954

Preserving the Treasures of Olduvai Gorge. By Melvin M. Payne. Photos by Joseph J. Scherschel. 701-709, Nov. 1966

Included: *Homo erectus*, *Homo habilis*, *Kenyapithecus*, *Zinjanthropus*

Skull 1470. By Richard E. Leakey. Photos by Bob Campbell. 819-829, June 1973

Vanished Mystery Men of Hudson Bay. By Henry B. Collins. 669-687, Nov. 1956

Included: Dorset Eskimos, Sadlermiut

Wyoming Muck Tells of Battle: Ice Age Man vs. Mammoth. By Cynthia Irwin, Henry Irwin, and George Agogino. 828-837, June 1962