

DOCUMENT RESUME

ED 026 282

SE 006 346

Science Education Information Report, General Bibliography Series 16, Teacher Resource Materials.  
ERIC Information Analysis Center for Science Education, Columbus, Ohio.

Pub Date Dec 68

Note-93p.

EDRS Price MF-\$0.50 HC-\$4.75

Descriptors-Audiovisual Aids, \*Bibliographies, College Science, Conservation Education, Curriculum Guides, Elementary School Science, Films, Filmstrips, Health Education, \*Instruction, \*Instructional Materials, Physical Sciences, \*Resource Materials, Science Activities, \*Science Education, Secondary School Science, Teaching Guides, Televised Instruction

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SE 006 346

# **SCIENCE EDUCATION INFORMATION REPORT**

**General Bibliography Series**

**Bibliography 16**

**Teacher Resource Materials**

**ERIC Information Analysis Center  
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1460 West Lane Avenue  
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**December, 1968**

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(7) TEAM TEACHING IN SCIENCE  
(8) THE SCIENCE TEACHER  
(9) 10 00 67      (10) 3  
(11) \*CURRICULUM DEVELOPMENT, \*INSTRUCTION, \*SECONDARY SCHOOL  
SCIENCE, \*SCIENCE FACILITIES, \*TEAM TEACHING, BIOLOGY, CHEM-  
ISTRY, EARTH SCIENCE, GENERAL SCIENCE, PHYSICS, PROGRAM DE-  
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# A. ELEMENTARY EDUCATION

## 1. Science

1. SE 003 821 04 19 68 18 86 20 1 00 000 004  
ANDERSON, RONALD D.  
CHILDREN AND SCIENTIFIC MODELS  
SCHOOL SCIENCE AND MATHEMATICS  
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\*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTION, \*MODELS (MENTAL),  
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2. SE 003 382 09 25 68 18 91 20 1 00 000 014  
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CHANGE - A BASIC CONDITION  
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\*CHANGE, \*ELEMENTARY SCHOOL SCIENCE, \*EDUCATIONAL OBJECTIVES,  
\*SCIENTIFIC CONCEPTS
3. SE 003 394 07 10 68 18 81 20 1 00 000 014  
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\*DATA ANALYSIS, \*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTION,  
\*SCIENTIFIC METHODOLOGY, \*SCIENCE ACTIVITIES
4. SE 003 632 03 20 68 18 81 03 1 00 000 006  
BROWN, STANLEY B.  
ELEMENTARY SCIENCE BIBLIOGRAPHY  
SCIENCE EDUCATION  
03 00 64 8  
\*BIBLIOGRAPHIES, \*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTIONAL  
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5. SE 002 774 08 22 68 02 71 15 2 44 000 480  
 ELEMENTARY SCHOOL SCIENCE PROJECT  
 SCIENCE FOR FIRST GRADE - A MANUAL FOR TEACHERS  
 UTAH STATE UNIVERSITY, ELEMENTARY SCHOOL SCIENCE  
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 64 114  
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 \*GENERAL SCIENCE, STUDENT ACTIVITIES, \*TEACHING GUIDES,  
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6. SE 003 250 03 04 68 18 55 15 2 00 000 210  
 ELEMENTARY SCIENCE STUDY  
 BATTERIES AND BULBS, BOOK I - CIRCUITS I  
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 66 51  
 \*BATTERIES, \*CIRCUITS, \*ELEMENTARY SCHOOL SCIENCE, \*ELECTRICITY,  
 \*INSTRUCTION, \*MAGNETISM, \*PHYSICAL SCIENCES, \*STUDENT ACTIVITIES,  
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 66 29  
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8. SE 003 281 09 25 68 18 55 15 2 00 000 210  
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 66 28  
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9. SE 003 279 03 04 68 18 55 15 1 00 000 2  
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 BATTERIES AND BULBS, BOOK 4 - GUIDE TO BOOKS  
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 66 14  
 \*ANNOTATED BIBLIOGRAPHIES, \*ELEMENTARY SCHOOL SCIENCE, \*ELECTRICITY,  
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 BULBS, MAGNETS, NATIONAL SCIENCE FOUNDATION, ELEMENTARY SCIENCE  
 STUDY, EDUCATIONAL SERVICES, INC.
10. SE 002 490 09 24 68 18 11 15 2 21 000 29  
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 66 57  
 \*BEHAVIOR, \*BIOLOGY, \*ELEMENTARY SCHOOL SCIENCE, \*SCIENCE  
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11. SE 002 497 09 24 68 18 72 15 2 21 000 29  
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 67 138  
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12. SE 002 489 04 18 68 18 81 15 2 21 000 29  
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 67 45  
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14. SE 002 488 04 19 68 18 11 37 2 21 000 291  
ELEMENTARY SCIENCE STUDY  
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MYSTERY POWDERS - TEACHERS' GUIDE, TRAIL EDITION

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\*ELEMENTARY SCHOOL SCIENCE, \*PHYSICS, \*SCIENCE EXPERIMENTS,  
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- 67 22  
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18. SE 002 487 04 19 67 18 11 15 2 21 000 291  
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- 104  
 \*ELEMENTARY SCHOOL SCIENCE, \*MICROBIOLOGY, \*MOLDS, \*SCIENCE  
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19. SE 001 770 09 23 68 18 91 16 3 10 000 200  
 GEORGIA STATE DEPARTMENT OF EDUCATION  
 SCIENCE FOR GEORGIA SCHOOLS - INTERMEDIATE  
 GEORGIA STATE DEPARTMENT OF EDUCATION
- 55 168  
 \*CURRICULUM DEVELOPMENT, \*CURRICULUM GUIDES, \*ELEMENTARY  
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 SCIENCE ACTIVITIES, TEACHER RESOURCE MATERIALS, GEORGIA
20. SE 002 954 09 24 68 18 91 15 1 05 000 155  
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 SCIENCE IN THE ELEMENTARY SCHOOL - BASIC MATERIAL  
 FOR GRADES KINDERGARTEN THROUGH SIX  
 LOS ANGELES CITY SCHOOLS, CALIFORNIA
- 62 230  
 \*AUDIOVISUAL AIDS, \*BIBLIOGRAPHIES, \*BIOLOGY, \*ELEMENTARY  
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 MATERIALS, \*PROBLEM SOLVING, \*SCIENCE ACTIVITIES, \*TEACHING  
 GUIDES, BOTANY, EARTH SCIENCE, ENERGY, KINDERGARTEN,  
 LABORATORY SAFETY, MACHINES, SPACE SCIENCE, ZOOLOGY,  
 CALIFORNIA, LOS ANGELES, 1961



21. SE 003 387 08 13 68 17 81 38 1 00 000 014  
MILGROM, HARRY  
SCIENCE QUERY OF THE MONTH  
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01 00 60 1  
\*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTIONAL MATERIALS, \*SCIENCE  
MATERIALS, \*INSTRUCTIONAL AIDS, FILMS, FILMSTRIPS, GLOBES, MODELS,  
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22. SE 003 386 07 10 68 18 91 20 1 00 000 014  
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YOU ASKED ABOUT SCIENCE  
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12 00 59 4  
\*EVALUATION, \*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTION, \*REFERENCE  
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23. SE 003 442 07 11 68 18 51 20 1 00 000 010  
RUCHLIS, HY  
RADIO WAVES  
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09 00 67 2  
\*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTION, \*PHYSICAL SCIENCES,  
\*SCIENCE ACTIVITIES, \*STUDENT ACTIVITIES, INSTRUCTIONAL  
MATERIALS, RESOURCE MATERIALS, RADIO
24. SE 003 731 09 26 68 18 71 15 2 00 000 367  
SCIENCE CURRICULUM IMPROVEMENT STUDY  
ENERGY - A SCIENCE UNIT FOR THE UPPER ELEMENTARY GRADES  
SCIENCE CURRICULUM IMPROVEMENT STUDY, UNIVERSITY OF  
CALIFORNIA, BERKELEY  
67 106  
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25. SE 002 553 02 14 68 18 91 15 2 00 000 211  
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D. C. HEATH AND COMPANY  
67 104  
\*CURRICULUM DEVELOPMENT, \*ELEMENTARY SCHOOL SCIENCE, \*PHYSICAL  
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\*TEACHING GUIDES, CONCEPT FORMATION, INTERACTION, PHYSICS, SCIENCE  
KITS, TEACHING METHODS, SCIENCE EQUIPMENT, NATIONAL SCIENCE  
FOUNDATION, SCIENCE CURRICULUM IMPROVEMENT STUDY

26. SE 003 048 09 04 68 18 51 15 2 00 000 367  
 SCIENCE CURRICULUM IMPROVEMENT STUDY  
 TEACHER'S GUIDE FOR POSITION AND MOTION - A SCIENCE UNIT FOR  
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 SCIENCE CURRICULUM IMPROVEMENT STUDY, UNIVERSITY OF CALIFORNIA,  
 BERKELEY 94720  
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 \*CURRICULUM DEVELOPMENT, \*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTION,  
 \*MOTION, \*PHYSICAL SCIENCES, \*SCIENCE UNITS, \*TEACHING GUIDES,  
 DISCOVERY LEARNING, SCIENCE EQUIPMENT, SCIENCE COURSE IMPROVEMENT  
 PROJECT, NATIONAL SCIENCE FOUNDATION, SCIENCE CURRICULUM IMPROVEMENT  
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27. SE 002 622 07 08 68 17 21 20 1 00 000 010  
 SHAW, DARLA  
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 02 00 67 2  
 \*CHEMISTRY, \*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTIONAL MATERIALS,  
 \*INSTRUCTION, \*SCIENCE ACTIVITIES, \*SCIENCE UNITS, RESOURCE  
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28. SE 003 447 09 25 68 18 25 20 2 00 000 010  
 SEELEY, MILLARD G.  
 CHANGES IN MATTER  
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 09 00 67 4  
 \*CHEMICAL CHANGE, \*CHEMISTRY, \*CLASSIFICATION, \*COLLEGE SCIENCE,  
 \*MATTER, \*PHYSICAL SCIENCES, COMMUNICATIONS, ENERGY, MOLECULES,  
 RESOURCE MATERIALS, NATIONAL SCIENCE TEACHERS ASSOCIATION
29. SE 003 614 07 11 68 10 81 20 2 00 000 006  
 SMITH, EUGENE H.  
 AN ANALYSIS OF SOME PROMINENT VIEWPOINTS ON TEACHING ELEMENTARY  
 SCHOOL SCIENCE  
 SCIENCE EDUCATION  
 03 00 63 6  
 \*EDUCATIONAL OBJECTIVES, \*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTION,  
 \*OBJECTIVES, \*TEXTBOOKS, \*TEACHING METHODS, COURSE CONTENT, PRO-  
 GRAM CONTENT
30. SE 002 280 04 30 68 18 81 11 2 00 000 170  
 VESSEL, M. F.  
 ELEMENTARY SCHOOL SCIENCE TEACHING  
 THE CENTER FOR APPLIED RESEARCH IN EDUCATION  
 63 119  
 \*ELEMENTARY SCHOOL SCIENCE, \*INSTRUCTION, \*TEACHER EDUCATION,  
 CURRICULUM, CURRICULUM PLANNING, EDUCATIONAL OBJECTIVES, EVALUA-  
 TION, FIELD TRIPS, INSTRUCTION MATERIALS, PROBLEM SOLVING, SCIENCE  
 FACILITIES, SCIENCE EDUCATION HISTORY, SCIENCE EQUIPMENT, TEACHING  
 METHODS, TEXTBOOKS



## 2. Mathematics

1. SE 003 896 09 30 68 18 09 15 2 04 000 200  
ARKANSAS STATE DEPARTMENT OF EDUCATION  
CONTEMPORARY MATHEMATICS GUIDELINES FOR ARKANSAS ELEMENTARY  
SCHOOLS

ARKANSAS STATE DEPARTMENT OF EDUCATION

66 29  
\*ARITHMETIC, \*ELEMENTARY SCHOOL MATHEMATICS, \*GEOMETRY,  
\*SET THEORY, \*TEACHING TECHNIQUES, AUDIOVISUAL AIDS,  
BIBLIOGRAPHIES, GLOSSARIES, INSTRUCTION, MATHEMATICS,  
NUMBER CONCEPTS, NUMBER SYSTEMS, PROBLEM SOLVING,  
TEACHING GUIDES, ARKANSAS

2. SE 003 760 06 06 68 18 09 03 3 13 000 200  
ILLINOIS STATE DEPARTMENT OF EDUCATION  
BIBLIOGRAPHIES - ELEMENTARY SCHOOL MATHEMATICS

EDRS, NATIONAL CASH REGISTER COMPANY

08 00 66 36  
\*BIBLIOGRAPHIES, \*ELEMENTARY SCHOOL MATHEMATICS, \*MATHEMATICS,  
\*REFERENCE MATERIALS, ANNOTATED BIBLIOGRAPHIES, LIBRARY MATERIALS,  
TEACHER EDUCATION, TEXTBOOKS

## B. SECONDARY EDUCATION

### 1. Biological Sciences

1. SE 003 483 09 10 68 18 12 30 1 00 000 001  
BEHRINGER, MARJORIE  
USE OF THE VINEGAR EEL IN THE LABORATORY  
THE AMERICAN BIOLOGY TEACHER  
10 00 67 8  
\*BIOLOGY, \*SCIENCE EXPERIMENTS, \*SCIENCE MATERIALS, \*SECONDARY  
SCHOOL SCIENCE, INSTRUCTIONAL MATERIALS, LABORATORY  
TECHNIQUES, SCIENCE ACTIVITIES, VINEGAR EEL
2. SE 002 964 06 06 68 17 12 11 3 00 000 388  
BELFIELD, W.  
MODELS AND METHODS IN PRACTICAL BIOLOGY FOR SECONDARY SCHOOL  
PERGAMON PRESS  
66 163  
\*BIOLOGY, \*BOTANY, \*INSTRUCTIONAL MATERIALS, \*LABORATORY PROCE-  
DURES, \*PHYSIOLOGY, \*RESOURCE MATERIALS, \*SECONDARY SCHOOL SCIENCE,  
\*LABORATORY MANUALS, SCIENCE ACTIVITIES, TEXTBOOKS
3. SE 002 370 04 03 68 18 12 17 2 22 000 319  
BENNETT, WILLIAM Y.  
PLANT COMMUNITIES OF SELECTED DUNES AND SANDY AREAS OF  
FLORIDA - AS LABORATORIES FOR HIGH SCHOOL BIOLOGY  
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN  
61 151  
\*BIOLOGY, \*ECOLOGY, \*FIELD STUDIES, \*INSTRUCTION, \*OUTDOOR  
EDUCATION, \*SECONDARY SCHOOL SCIENCE, \*TEACHING GUIDES, BOTANY,  
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4. SE 003 046 07 09 68 18 12 15 1 13 000 176  
CHICAGO PUBLIC SCHOOLS  
SUPPLEMENT TO TEACHING GUIDE FOR SCIENCE  
CHICAGO PUBLIC SCHOOLS, ILLINOIS  
61 247  
\*BIOLOGY, \*CURRICULUM, \*INSTRUCTIONAL MATERIALS, \*STUDENT  
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GUIDES, AUDIOVISUAL AIDS, BIBLIOGRAPHIES, CURRICULUM GUIDES,  
EDUCATIONAL OBJECTIVES, ECOLOGY, FILMS, FILMSTRIPS, MODELS,  
CHICAGO PUBLIC SCHOOLS, 1961

5. SE 003 265 09 09 68 18 12 30 1 00 000 045  
ESCALANTE, A. YORK  
HOW TO MOUNT AND PRESERVE INSECTS  
NEA JOURNAL  
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\*BIOLOGY, \*ENTOMOLOGY, \*LABORATORY TECHNIQUES, \*SECONDARY  
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\*SECONDARY SCHOOL SCIENCE, ANATOMY, INSTRUCTIONAL MATERIALS,  
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\*SECONDARY SCHOOL SCIENCE, AUDIOVISUAL AIDS, FILMS,  
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MATERIALS, \*SECONDARY SCHOOL SCIENCE, COLLEGE SCIENCE,  
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 \*MATHEMATICS, \*SECONDARY SCHOOL SCIENCE, SCIENCE PROJECTS
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\*SOLUTIONS, \*SCIENCE EXPERIMENTS, COLLEGE SCIENCE, SCIENCE  
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\*UNITS OF INSTRUCTION, AUDIOVISUAL AIDS, MAPS
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 COURSE CONTENT, CHEMISTRY, ELECTRICITY, EDUCATIONAL OBJECTIVES,  
 FILMS, FILMSTRIPS, HEAT, ELECTRONICS, LIGHT, MECHANICS, NUCLEAR  
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 \*TEACHER GUIDES, ASTRONOMY, ELECTRICITY, ELEMENTARY SCHOOL  
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 SCIENCE REVIEW

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 66 80  
 \*ADVANCED PROGRAMS, \*INSTRUCTION, \*MATHEMATICAL APPLICATIONS,  
 \*PHYSICS, \*PROBLEM SOLVING, \*SECONDARY SCHOOL SCIENCE, \*SCIENCE  
 EXPERIMENTS, \*TEACHING TECHNIQUES, \*TEACHING GUIDES, SCIENCE  
 ACTIVITIES, PHYSICAL SCIENCE STUDY COMMITTEE
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 SCIENCE, \*SCIENCE ACTIVITIES, FORCES, GRAPHS, MOTION, SCIENCE  
 EQUIPMENT, SCIENCE DEMONSTRATIONS
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 \*EARTH SCIENCE, \*SECONDARY SCHOOL SCIENCE, ASTRONOMY  
 AUDIOVISUAL AIDS, GEOLOGY, OCEANOLOGY, SCIENCE FACILITIES,  
 SCIENCE ACTIVITIES, NATIONAL SCIENCE TEACHERS ASSOCIATION
20. SE 002 091 10 10 67 18 52 38 1 00 000 009  
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 64 129  
 \*CURRICULUM, \*CURRICULUM GUIDES, \*EDUCATIONAL OBJECTIVES,  
 \*MATHEMATICS, \*SECONDARY SCHOOL MATHEMATICS, \*TEACHING GUIDES,  
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 \*STATE CURRICULUM GUIDES, ANNOTATED BIBLIOGRAPHIES,  
 BIBLIOGRAPHIES, COURSE ORGANIZATION, CURRICULUM GUIDES,  
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 TEACHING, TEACHING GUIDES, STATE DEPARTMENT OF EDUCATION,  
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