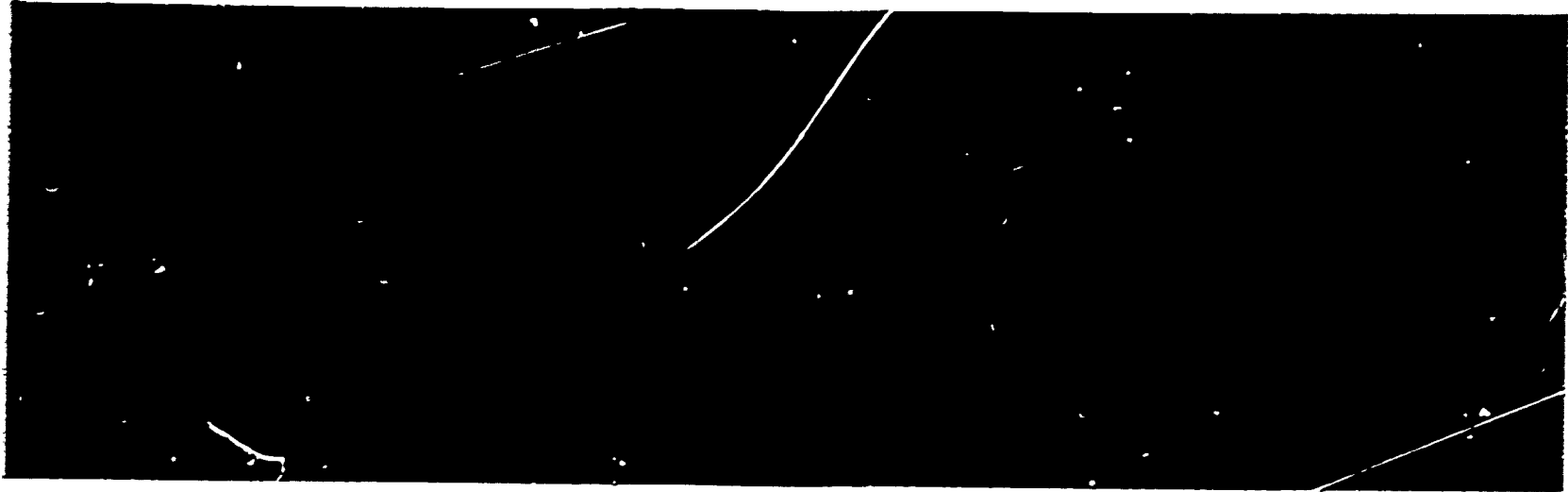


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July, 1969

BIBLIOGRAPHY 22

Table of Contents	Page
A. Science Education	1
B. Mathematics Education	22
C. Author Index	28
D. Unauthored Index	30

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A. SCIENCE EDUCATION

1. SE 004 018 3 11 83 17
ANDERSON, HANS G.
AN ANALYSIS OF A METHOD FOR IMPROVING PROBLEM-SOLVING SKILLS POSSESSED BY COLLEGE STUDENTS PREPARING TO PURSUE SCIENCE TEACHING AS A PROFESSION
INDIANA UNIVERSITY, BLOOMINGTON
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
ED 020 123 NOT AVAILABLE FROM EDRS
66 152
*DOCTORAL THESES, *INSTRUCTION, *PROBLEM SOLVING, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING TECHNIQUES, COLLEGE SCIENCE, RESEARCH REPORTS, WATSON GLASER CRITICAL THINKING APPRAISAL, 1966, INDIANA UNIVERSITY
2. SE 005 957 1 11 35 29
BLASS, GERHARD A.
TPT NOTES, A COOPERATIVE PROJECT TO IMPROVE HIGH SCHOOL PHYSICS IN DETROIT
THE PHYSICS TEACHER
11 00 68 5
*EDUCATIONAL PROGRAMS, *INSERVICE EDUCATION, *PHYSICS, *SCIENCE INSTITUTES, *TEACHER EDUCATION, CONTINUING EDUCATION, PROJECT REPORTS, NATIONAL SCIENCE FOUNDATION, CENCO INSTRUMENT CORPORATION, DETROIT PUBLIC SCHOOLS, MICHIGAN
3. SE 005 868 1 11 72 20
BOENER, CHARLOTTE; AND OTHERS
THE PROFESSIONAL PREPARATION OF FUTURE JUNIOR HIGH SCHOOL SCIENCE TEACHERS
SCHOOL SCIENCE AND MATHEMATICS
11 00 68 9
*PROFESSIONAL EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, COLLEGE SCIENCE, GENERAL EDUCATION, GENERAL SCIENCE, STUDENT TEACHING
4. SE 005 972 1 11 09 17
BRADSHAW, CHARLES KENNETH
MATHEMATICS TEACHING IN THE PUBLIC SECONDARY SCHOOLS OF THE STATE OF NEVADA
UNIVERSITY OF CALIFORNIA, BERKELEY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
68 267
*CURRICULUM, *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *SECONDARY SCHOOL MATHEMATICS, *TEACHER EDUCATION, INSERVICE EDUCATION, MATHEMATICS TEACHERS, TEACHER ATTITUDES, NEVADA, 1968

5. SE 004 330 1 11 93 25
 BURKHART, BRUCE
 A SURVEY OF JUNIOR COLLEGE CERTIFICATION REQUIREMENTS IN THE UNITED STATES
 THE AMERICAN BIOLOGY TEACHER
 11 00 67 5
 *COLLEGE SCIENCE, *JUNIOR COLLEGES, *TEACHER CERTIFICATION, CERTIFICATION,
 TEACHER QUALIFICATIONS, TEACHER EDUCATION
6. SE 005 110 2 11 01 17
 CARUTHERS, BERTRAM, SR.
 TEACHER PREPARATION AND EXPERIENCE RELATED TO ACHIEVEMENT OF FIFTH GRADE PUPILS
 IN SCIENCE
 UNIVERSITY OF NEBRASKA TEACHERS COLLEGE, LINCOLN, NEBRASKA
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 85
 *ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *ELEMENTARY SCHOOL TEACHERS, *TEACHER
 CHARACTERISTICS, ACADEMIC ACHIEVEMENT, DOCTORAL THESES, GRADE 5, INSTRUCTION,
 RESEARCH REPORTS, TEACHER EXPERIENCE, TEACHER BEHAVIOR, TEACHER BACKGROUND
7. SE 005 111 1 11 81 17
 CHENEY, BRUCE DIXON
 COMMITMENT TO SCIENCE TEACHING AMONG PROSPECTIVE ELEMENTARY SCHOOL TEACHERS -
 AN EXPLORATORY STUDY
 UNIVERSITY OF ILLINOIS
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 210
 *ELEMENTARY SCHOOL SCIENCE, *METHODS COURSES, *STUDENT TEACHERS, *TEACHER
 EDUCATION, DOCTORAL THESES, ELEMENTARY SCHOOL TEACHERS, RESEARCH REPORTS,
 TEAM TEACHING, UNIVERSITY OF ILLINOIS, 1966
8. SE 005 094 3 11 09 11
 COHEN, DONALD; AND OTHERS
 SUPPLEMENTARY MODERN MATHEMATICS FOR GRADES 1 THROUGH 9, IN-SERVICE COURSE FOR
 TEACHERS
 SYRACUSE UNIVERSITY, NEW YORK; WEBSTER COLLEGE, ST. LOUIS, MISSOURI
 EDRS
 ED 023 588 MF \$1.00 HC \$11.50
 228
 *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS,
 *SECONDARY SCHOOL MATHEMATICS, *TEACHER EDUCATION, ARITHMETIC, ALGEBRA,
 CURRICULUM DEVELOPMENT, DISCOVERY LEARNING, INSERVICE COURSES, INSTRUCTIONAL
 MATERIALS, MATHEMATICAL CONCEPTS, MODERN MATHEMATICS, THE MADISON PROJECT

9. SE C05 299 1 11 13 32
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
 CUEBS NEWS, VOLUME II, NUMBER 5
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES, WASHINGTON, D.C.
 06 00 66 20
 *BIOLOGY, *COLLEGE SCIENCE, *CURRICULUM, *INSTRUCTION, *TEACHER EDUCATION,
 CURRICULUM DEVELOPMENT, EDUCATIONAL PROGRAMS, NEWSLETTERS, SECONDARY SCHOOL
 TEACHERS, CUEBS
10. SE 005 302 1 11 13 32
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
 CUEBS NEWS, VOLUME III, NUMBER 2
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES, WASHINGTON, D.C.
 12 00 66 12
 *BIOLOGY, *COLLEGE SCIENCE, *PROFESSIONAL ASSOCIATIONS, *UNDERGRADUATE STUDY,
 BIOENGINEERING, COLLEGE TEACHERS, GENERAL EDUCATION, NEWSLETTERS, SCIENCE
 HISTORY, SUMMER PROGRAMS, TEACHER EDUCATION, NATIONAL SCIENCE FOUNDATION,
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
11. SE 005 296 1 11 13 32
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
 CUEBS NEWS, VOLUME IV, NUMBER 5
 COMMISSION ON UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES, WASHINGTON, D.C.
 06 00 68 16
 *BIOLOGY, *COLLEGE SCIENCE, *PROFESSIONAL ASSOCIATIONS, *TEACHER EDUCATION,
 *UNDERGRADUATE EDUCATION, CURRICULUM PLANNING, INSERVICE TEACHER EDUCATION,
 NEWSLETTERS, PROGRAM PLANNING, PRESERVICE EDUCATION, COMMISSION ON
 UNDERGRADUATE EDUCATION IN THE BIOLOGICAL SCIENCES
12. SE 004 355 2 11 91 11
 CRAIG, GERALD S.
 SCIENCE FOR THE ELEMENTARY SCHOOL TEACHER
 COLUMBIA UNIVERSITY TEACHERS COLLEGE, NEW YORK, NEW YORK.
 66 962
 *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *LEARNING, *RESOURCE MATERIALS,
 *SCIENCE EDUCATION, *TEXTBOOKS, *TEACHING METHODS, *TEACHER EDUCATION,
 BIOLOGY, CURRICULUM, COMMUNITY RESOURCES, EVALUATION, EARTH SCIENCE, METHODS
 COURSES, NATURAL RESOURCES, PROBLEM SOLVING

13. SE 005 530 1 11 25 20
 CRUNDEN, EDWARD
 CHEMISTRY IN THE HIGH SCHOOLS
 EDUCATION QUARTERLY
 5
 *CHEMISTRY, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, EDUCATIONAL
 OBJECTIVES, INTERNATIONAL EDUCATION, UNIVERSITY OF THE PHILIPPINES, MANILA,
 PHILIPPINES
14. SE 005 781 3 11 81 17
 DICK, ROY DENNIS
 A STUDY OF OPEN-MINDED AND CLOSED-MINDED PRE-SERVICE ELEMENTARY EDUCATION MAJORS
 BEING TRAINED IN CONTEMPORARY SCIENCE METHODS
 OKLAHOMA STATE UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 024 611 NOT AVAILABLE FROM EDRS
 57 95
 *ELEMENTARY SCHOOL SCIENCE, *PRESERVICE EDUCATION, *PSYCHOLOGICAL CHARACTERISTICS,
 *TEACHER EDUCATION, ACHIEVEMENT, DOCTORAL THESES, METHODS COURSES, RESEARCH
 REPORTS, SCIENCE EDUCATION, TEACHER ATTITUDES, ROKEACH'S DOGMATISM SCALE, READ
 GENERAL SCIENCE TEST, 1967
15. SE 005 339 1 11 84 20
 DRUGER, MARVIN
 THE CONCEPT OF FYST, AN ASSOCIATION FOR FIRST-YEAR SCIENCE TEACHERS
 THE SCIENCE TEACHER
 09 00 68 2
 *BEGINNING TEACHERS, *CONTINUING EDUCATION, *PAPERS, *PROFESSIONAL ASSOCIATIONS,
 *SCIENCE TEACHERS, *TEACHER EDUCATION, ONONDAGE COUNTY, NEW YORK, CENTER FOR
 SCIENCE EDUCATION, SCIENCE WORKSHOPS, SYRACUSE UNIVERSITY, DIRECTOR OF SCIENCE
 TEACHERS IN THE GREATER SYRACUSE AREA, NATIONAL SCIENCE FOUNDATION, 1968
16. SE 005 432 1 11 84 20
 EGGLESTON, J. F.; KELLY, P. J.
 MATHEMATICS AND SCHOOL BIOLOGY
 JOURNAL OF BIOLOGICAL EDUCATION
 06 00 68 16
 *BIOLOGY, *CURRICULUM, *MATHEMATICS, *PAPERS, SECONDARY SCHOOL SCIENCE,
 BIOLOGY COURSES, RESEARCH NEEDS, THE ORIGIN OF SPECIES, DESCENT OF MAN,
 NUFFIELD FOUNDATION SCIENCE TEACHING PROJECT

17. SE 005 976 1 11 35 17
 FARLEY, GEORGE THOMAS
 INCREASING THE COGNITIVE LEVEL OF CLASSROOM QUESTIONS: AN APPLICATION OF BLOOM'S
TAXONOMY OF EDUCATIONAL OBJECTIVES
 UNIVERSITY OF MASSACHUSETTS
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 132
 *STUDENT TEACHERS, *QUESTIONING TECHNIQUES, *EDUCATIONAL OBJECTIVES, *TEACHER
 EDUCATION, *TEACHER BEHAVIOR, DOCTORAL THESES, ELEMENTARY SCHOOL TEACHERS,
 INSTRUCTION, RESEARCH REPORTS, SECONDARY SCHOOL TEACHERS, TEACHER-PUPIL QUESTION
 INVENTORY, TAXONOMY OF EDUCATIONAL OBJECTIVES
18. SE 004 693 3 11 09 20
 FENG, CHUAN C.
 COMPUTER RELATED MATHEMATICS AND SCIENCE CURRICULUM MATERIALS - A NATIONAL SCIENCE
 FOUNDATION COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM IN COMPUTING SCIENCE EDUCATION
 BOULDER VALLEY SCHOOL DISTRICT, COLORADO; JEFFERSON COUNTY SCHOOL DISTRICT, COLORADO
 EDRS
 ED 022 677 MF \$1.00 HC \$11.90
 67 236
 *COMPUTER ORIENTED PROGRAMS, *CURRICULUM DEVELOPMENT, *SECONDARY SCHOOL
 MATHEMATICS, *SECONDARY SCHOOL SCIENCE, ALGEBRA, COMPUTER PROGRAMS, INSTRUCTION,
 MATHEMATICS, NUMBER CONCEPTS, PHYSICS, SCIENCES, TEACHER EDUCATION, COOPERATIVE
 COLLEGE-SCHOOL SCIENCE PROGRAM, NATIONAL SCIENCE FOUNDATION, UNIVERSITY OF COLORADO
19. SE 004 130 1 11 81 29
 FULBRIGHT, CARLETON B.
 ELEMENTARY SCIENCE
 MISSOURI STATE DEPARTMENT OF EDUCATION, JEFFERSON CITY
 5
 *ELEMENTARY SCHOOL SCIENCE, *INSERVICE PROGRAMS, *PROGRAM DESCRIPTIONS, *SCIENCE,
 *TEACHER EDUCATION, OBJECTIVES, MISSOURI STATE DEPARTMENT OF EDUCATION, NATIONAL
 DEFENSE EDUCATION ACT, TITLE III
20. SE 005 000 2 11 92 17
 GOLDTHWAITE, DANIEL THADDEUS
 A STUDY OF MICRO-TEACHING IN THE PRESERVICE EDUCATION OF SCIENCE TEACHERS
 OHIO STATE UNIVERSITY, COLUMBUS
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 131
 *MICRO-TEACHING, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, *TEACHING
 TECHNIQUES, BIOLOGY, CHEMISTRY, DOCTORAL THESES, GENERAL SCIENCE, METHODS
 COURSES, PHYSICS, PEER TEACHING, PROFESSIONAL EDUCATION, RESEARCH REPORTS,
 SCIENCE DEMONSTRATIONS, STUDENT TEACHING, ROKEACH DOGMATISM SCALE FORM E

21. SE 004 061 2 11 53 17
 HIACK, PAUL S.
 LABORATORY EXPERIMENTS IN COLLEGE PHYSICAL SCIENCE FOR PROSPECTIVE ELEMENTARY SCHOOL TEACHERS
 COLUMBIA UNIVERSITY, NEW YORK, NEW YORK
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 190
 *COLLEGE SCIENCE, *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *LABORATORY EXPERIMENTS, *PHYSICAL SCIENCES, *SCIENCE ACTIVITIES, *TEACHER EDUCATION, CHEMISTRY, DOCTORAL THESES, PHYSICS, UNDERGRADUATE STUDY
22. SE 004 342 1 11 42 20
 HIGGINS, JON L.; BOYER, ROBERT E.
 EXPERIMENTAL EARTH SCIENCE FOR EIGHTH GRADE - A COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM
 THE SCIENCE TEACHER
 01 00 68 3
 *CURRICULUM DEVELOPMENT, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, CURRICULUM, GRADE 8, INSERVICE EDUCATION, SCIENCE ACTIVITIES, EARTH SCIENCE CURRICULUM PROJECT, NATIONAL SCIENCE FOUNDATION, SAN ANTONIO, TEXAS
23. SE 004 621 3 11 35 17
 HOFFART, ERVIN H.
 THE ROLE OF HIGH SCHOOL TEACHERS IN DISSEMINATING NEW ELEMENTARY SCIENCE CURRICULUM EDUCATION DEVELOPMENT CENTER, NEWTON, MASSACHUSETTS
 EDRS
 ED 020 134 MF \$0.25 HC \$1.75
 03 00 68 33
 *CURRICULUM DEVELOPMENT, *INSERVICE TEACHER EDUCATION, *PHYSICS, *STUDENT TEACHERS, *SCIENCE COURSE IMPROVEMENT PROJECT, *SECONDARY SCHOOL SCIENCE, *TEACHER WORKSHOPS, *TEACHER EDUCATION, INFORMATION DISSEMINATION, ELEMENTARY SCHOOL SCIENCE, RESEARCH REPORTS, PHYSICAL SCIENCE STUDY COMMITTEE, ELEMENTARY SCIENCE STUDY, INTRODUCTORY PHYSICAL SCIENCE, HARVARD PROJECT PHYSICS, INTERMEDIATE SCIENCE CURRICULUM STUDY, EDUCATIONAL DEVELOPMENT CENTER
24. SE 005 020 1 11 71 15
 HONE, ELIZABETH B.; AND OTHERS
 A SOURCEBOOK FOR ELEMENTARY SCIENCE
 HARCOURT, BRACE & WORLD, INC., NEW YORK, NEW YORK
 62 552
 *ELEMENTARY SCHOOL TEACHERS, *GENERAL SCIENCE, *SCIENCE ACTIVITIES, BIOLOGICAL SCIENCES, BIBLIOGRAPHIES, EQUIPMENT GUIDES, ELEMENTARY SCHOOL SCIENCE, INSTRUCTION, PHYSICAL SCIENCES, SCIENCE EXPERIMENTS, SCIENCE DEMONSTRATIONS, TEACHING GUIDES

25. SE 005 133 3 11 93 17
 IRBY, BOBBY NEWELL
 A FOLLOW-UP STUDY OF THE PARTICIPANTS OF THE NATIONAL SCIENCE FOUNDATION
 ACADEMIC YEAR INSTITUTES FOR HIGH SCHOOL TEACHERS OF SCIENCE AND MATHEMATICS
 HELD AT THE UNIVERSITY OF MISSISSIPPI, 1961-66
 UNIVERSITY OF MISSISSIPPI
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 022 701 NOT AVAILABLE FROM EDRS
 67 201
 *MATHEMATICS, *PROGRAM EFFECTIVENESS, *SCIENCES, *SCIENCE INSTITUTES, *TEACHER
 EDUCATION, COLLEGE SCIENCE, DOCTORAL THESES, UNIVERSITY OF MISSISSIPPI, ACADEMIC
 YEAR INSTITUTES
26. SE 004 393 1 11 81 20
 JACOBSON, WILLARD J.
 TEACHER EDUCATION AND ELEMENTARY SCHOOL SCIENCE, 1980
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 8
 *EDUCATIONAL CHANGE, *ELEMENTARY SCHOOL SCIENCE, *TEACHER EDUCATION, EDUCATIONAL
 PROGRAMS, SCIENCE TEACHERS
27. SE 005 599 1 11 33 17
 JENSEN, VERNER
 THE EVALUATION OF HIGH SCHOOL PHYSICS TEACHERS' COLLEGE CURRICULUM BY THE
 HIGH SCHOOL TEACHERS IN IOWA
 THE PHYSICS TEACHER
 09 00 68 2
 *COLLEGE SCIENCE, *EDUCATIONAL PROGRAMS, *HIGH SCHOOL TEACHERS, *PHYSICS,
 *TEACHER EDUCATION, CURRICULUM, EVALUATION, RESEARCH REPORTS
28. SE 004 299 2 11 91 11
 KAMBLY, PAUL E.; SUTTLE, JOHN E.
 TEACHING ELEMENTARY SCHOOL SCIENCE
 THE RONALD PRESS COMPANY, NEW YORK, NEW YORK
 63 492
 *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTIONAL MATERIALS, *METHODS COURSES,
 *SCIENCE ACTIVITIES, *TEACHING METHODS, *TEACHER EDUCATION, AUDIOVISUAL AIDS,
 BIOLOGICAL SCIENCES, CHEMISTRY, EDUCATIONAL OBJECTIVES, EVALUATION, EARTH
 SCIENCE, FILMS, FILMSTRIPS, GEOLOGY, PHYSICAL SCIENCES, PHYSICS, RESOURCE UNITS,
 SCIENCE MATERIALS, SCIENCE EQUIPMENT, SCIENCE FACILITIES

29. SE 004 378 1 11 81 19
 KLEDMAN, GLADYS S.
 THE KEY TO THE SCIENCE WOMANPOWER POOL - TEACHER EDUCATION
 SCHOOL SCIENCE AND MATHEMATICS
 04 00 68 6
 *ELEMENTARY SCHOOL SCIENCE, *FEMALES, *TEACHER EDUCATION, CURRICULUM DEVELOPMENT,
 *SCIENTIFIC MANPOWER, SEX DIFFERENCES, STUDENT CHARACTERISTICS, AMERICAN
 ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, SCIENCE CURRICULUM IMPROVEMENT
 STUDY, ELEMENTARY SCIENCE STUDY PROGRAM
30. SE 004 033 2 11 81 17
 KRIEBS, JEAN
 THE EFFECT OF VIDEOTAPED ELEMENTARY SCHOOL SCIENCE CLASSROOM DEMONSTRATIONS ON
 SCIENCE TEACHING PERFORMANCE OF PRESERVICE TEACHERS
 TEMPLE UNIVERSITY, PHILADELPHIA, PENNSYLVANIA
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 110
 *ELEMENTARY SCHOOL SCIENCE, *EVALUATION, *RESEARCH REPORTS, *STUDENT TEACHING,
 *TEACHER EDUCATION, DOCTORAL THESES, SCIENCE DEMONSTRATIONS, VIDEO TAPE
 RECORDINGS, TEMPLE UNIVERSITY, 1967, MILWAUKEE ATTITUDE AND INTEREST,
 INVENTORY TESTS
31. SE 004 184 1 11 91 29
 KROCKOVER, GERALD H.; SCHAEFER, DONALD A.
 IMPROVING ELEMENTARY SCIENCE INSTRUCTION
 SCHOOL SCIENCE AND MATHEMATICS
 02 00 68 6
 *ELEMENTARY SCHOOL SCIENCE, *SUMMER INSTITUTES, *TEACHER EDUCATION, INSTRUCTIONAL
 IMPROVEMENT, MATHEMATICS, PHYSICAL SCIENCES, TEACHING METHODS, UNITED STATES
 OFFICE OF EDUCATION, PHYSICAL SCIENCE STUDY COMMITTEE, AMERICAN ASSOCIATION FOR
 THE ADVANCEMENT OF SCIENCE - SCIENCE A PROCESS APPROACH, TEST ON UNDERSTANDING
 SCIENCE
32. SE 005 142 2 11 84 17
 LEAKE, JOHN BENJAMIN
 A STUDY OF ATTITUDES OF ELEMENTARY TEACHERS TOWARD SCIENCE
 OKLAHOMA STATE UNIVERSITY, STILLWATER
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 97
 *ATTITUDES, *SCIENTIFIC ATTITUDES, *TEACHER EDUCATION, *TEACHER ATTITUDES,
 DOCTORAL THESES, EXTENSION EDUCATION, ELEMENTARY SCHOOL TEACHERS, RESEARCH
 REPORTS, TEACHER CHARACTERISTICS, OKLAHOMA STATE UNIVERSITY, 1966

33. SE 004 234 3 11 82 22
LEFLER, RALPH W.; AND OTHERS
GUIDELINES FOR CONTENT OF PRE-SERVICE PROFESSIONAL EDUCATION FOR SECONDARY SCHOOL SCIENCE TEACHERS
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, WASHINGTON, D.C.
EDRS
ED 017 470 MF \$0.25 HC \$1.35
12 00 67 25
*PROFESSIONAL EDUCATION, *PRESERVICE EDUCATION, *SCIENCE EDUCATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, GUIDELINES, TEACHER ROLE, ASSOCIATION FOR THE EDUCATION OF TEACHERS IN SCIENCE, NATIONAL SCIENCE TEACHERS ASSOCIATION, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
34. SE 004 308 1 11 91 11
LEWIS, JUNE E.; POTTER, IRENE C.
THE TEACHING OF SCIENCE IN THE ELEMENTARY SCHOOL
PRENTICE-HALL, INCORPORATED, ENGLEWOOD CLIFFS, NEW JERSEY
61 381
*ELEMENTARY SCHOOL SCIENCE, *METHODS COURSES, *RESOURCE MATERIALS, *SCIENCE EDUCATION, *SCIENCE ACTIVITIES, *TEXTBOOKS, *TEACHING METHODS, *TEACHER EDUCATION, AUDIOVISUAL AIDS, BIOLOGICAL SCIENCES, EARTH SCIENCES, EVALUATION, EDUCATIONAL OBJECTIVES, FILMS, INSTRUCTIONAL MATERIALS, PHYSICAL SCIENCES, SCIENCE MATERIALS
35. SE 004 653 1 11 12 20
LIGHTNER, JERRY P.
THE OUTLOOK FOR HIGH SCHOOL BIOLOGY TEACHING
THE AMERICAN BIOLOGY TEACHER
04 00 68 3
*BIOLOGY, *CAREERS, *SECONDARY SCHOOL SCIENCE, *SCIENCE TEACHERS, MANPOWER NEEDS, TEACHER EDUCATION, TEACHER SALARIES
36. SE 005 641 3 11 71 17
MACDOUGALL, MARY ANN
THE TEACHING OF UPPER ELEMENTARY SCHOOL SCIENCE USING PROGRAMED MATERIALS COUPLED WITH STUDENT PERFORMED EXPERIMENTS
UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE
EDRS
ED 023 613 MF \$0.50 HC \$4.55
08 00 68 89
*ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *INDIVIDUALIZED INSTRUCTION, *PROGRAMED INSTRUCTION, *TEACHER EDUCATION, CURRICULUM, GRADE 4, GRADE 5, GRADE 6, INSTRUCTIONAL MATERIALS, INSERVICE EDUCATION, LORGE-THORNDIKE INTELLIGENCE TEST, SEQUENTIAL TESTS OF EDUCATIONAL PROGRESS SCIENCE ACHIEVEMENT TEST

37. SE 005 145 3 11 94 17
 MARTINEN, GORDON DAVID
 A STUDY OF THE NATIONAL SCIENCE FOUNDATION SUMMER INSTITUTES IN SCIENCE AND
 MATHEMATICS HELD AT THE UNIVERSITY OF IDAHO FROM 1957 THROUGH 1964 AND THEIR
 IMPACT ON PROFESSIONAL ACTIVITIES OF THE RECIPIENTS
 UNIVERSITY OF IDAHO
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 022 702 NOT AVAILABLE FROM EDRS
 67 288
 *MATHEMATICS, *SCIENCES, *SUMMER INSTITUTES, *SECONDARY SCHOOL TEACHERS,
 *TEACHER EDUCATION, DOCTORAL THESES, EVALUATION, PROGRAM EVALUATION, TEACHER
 CHARACTERISTICS, RESEARCH REPORTS, UNIVERSITY OF IDAHO, NATIONAL SCIENCE
 FOUNDATION
38. SE 005 080 1 11 04 11
 MASSEY, NORMAN B.
 PATTERNS FOR THE TEACHING OF SCIENCE
 MACMILLAN COMPANY, NEW YORK, NEW YORK
 65 257
 *INSTRUCTIONAL MATERIALS, *SCIENCE EDUCATION, *SCIENCE ACTIVITIES, *TEACHER
 EDUCATION, AUDIOVISUAL AIDS, INSTRUCTION, TEACHING TECHNIQUES, TEXTBOOKS, 1955
39. SE 005 647 1 11 83 17
 MATTHEWS, CHARLES C.
 CLASSROOM VERBAL BEHAVIOR OF SCIENCE STUDENT TEACHERS AND THEIR COOPERATING
 TEACHERS
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 9
 *BEHAVIOR, *COOPERATING TEACHERS, *STUDENT TEACHERS, *SECONDARY SCHOOL SCIENCE,
 *TEACHER EDUCATION, LEARNING, VERBAL COMMUNICATION, CORNELL UNIVERSITY, 1967
40. SE 005 147 3 11 83 17
 MATTHEWS, CHARLES COLUMBUS
 THE CLASSROOM VERBAL BEHAVIOR OF SELECTED SECONDARY SCHOOL SCIENCE STUDENT
 TEACHERS AND THEIR COOPERATING CLASSROOM TEACHERS
 CORNELL UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 023 593 NOT AVAILABLE FROM EDRS
 66 242
 *SCIENCE TEACHERS, *STUDENT TEACHERS, *TEACHER EDUCATION, *TEACHER CHARACTERISTICS,
 *TEACHER BEHAVIOR, DOCTORAL THESES, INTERACTION PROCESS ANALYSIS, SECONDARY
 SCHOOL TEACHERS, VERBAL COMMUNICATION, CORNELL UNIVERSITY, FLANDERS INTERACTION
 ANALYSIS SYSTEM

41. SE 005 659 1 11 42 20
 MAYER, VICTOR J.
 SCIENCE REQUIREMENTS IN EARTH SCIENCE TEACHER PREPARATION PROGRAMS
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 6
 *COLLEGE SCIENCE, *EARTH SCIENCE, *SURVEYS, *SECONDARY SCHOOL SCIENCE, *TEACHER
 EDUCATION, EDUCATIONAL PROGRAMS, RESEARCH REPORTS, NATIONAL COUNCIL FOR
 ACCREDITATION OF TEACHER EDUCATION, DIRECTORY OF GEOSCIENCE DEPARTMENTS, AMERICAN
 GEOLOGICAL INSTITUTE, EARTH SCIENCE CURRICULUM PROJECT, 1967
42. SE 005 286 1 11 85 20
 MCAULAY, J.D.
 TRAINING AND RETRAINING OF MATHEMATICS AND SCIENCE TEACHERS
 THE EDUCATION DIGEST
 03 00 65 3
 *COLLEGE SCIENCE, *CONTINUING EDUCATION, *TEACHER EDUCATION, MATHEMATICS
 TEACHERS, SCHOOL INDUSTRY RELATIONSHIP, SCIENCE TEACHERS
43. SE 005 152 2 11 54 17
 MCBRIDE, RICHARD EARL
 THE EFFECT OF AN IN-SERVICE SCIENCE TRAINING PROGRAM FOR TEACHERS ON THE
 ACHIEVEMENT OF ELEMENTARY SCHOOL CHILDREN
 CORNELL UNIVERSITY, ITHACA, NEW YORK
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 67 133
 *ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *INSERVICE TEACHER EDUCATION, *PROGRAM
 EFFECTIVENESS, *TEACHER EDUCATION, DOCTORAL THESES, EVALUATION, ELEMENTARY
 SCHOOL TEACHERS, EDUCATIONAL PROGRAMS, PHYSICAL SCIENCES, RESEARCH REPORTS,
 NEW YORK STATE'S REGIONAL SCIENCE PROGRAM, NEW YORK STATE EDUCATION DEPARTMENT,
 CORNELL UNIVERSITY, SPEARMAN-BROWN PROPHECY FORMULA, 1967
44. SE 005 153 2 11 86 17
 MCLEOD, RICHARD J.
 CHANGES IN THE VERBAL INTERACTION PATTERNS OF SECONDARY SCIENCE STUDENT TEACHERS
 WHO HAVE HAD TRAINING IN INTERACTION ANALYSIS AND THE RELATIONSHIP OF THESE
 CHANGES TO THE VERBAL INTERACTION OF THEIR COOPERATING TEACHERS
 CORNELL UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 336
 *INTERACTION PROCESS ANALYSIS, *STUDENT TEACHERS, *SCIENCE TEACHERS, *TEACHER
 EDUCATION, DOCTORAL THESES, INSTRUCTION, RESEARCH REPORTS, SECONDARY SCHOOL
 SCIENCE, VERBAL COMMUNICATIONS

45. SE 005 982 1 11 01 17
 MENZEL, ERVIN WESLEY
 A STUDY OF PRESERVICE ELEMENTARY TEACHER EDUCATION IN TWO PROCESSES OF SCIENCE
 TEMPLE UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 228
 *ELEMENTARY SCHOOL TEACHERS, *INSTRUCTION, *TEACHER EDUCATION, *TEACHING
 PROCEDURES, *TEACHING METHODS, ACHIEVEMENT, DOCTORAL THESES, DISCOVERY PROCESSES,
 METHODS COURSES, RESEARCH REPORTS, STUDENT TEACHERS, SEQUENTIAL TEST ON
 EDUCATIONAL PROGRESS
46. SE 004 784 1 11 42 06
 MERRILL, WILLIAM M.; AND OTHERS
 RECOMMENDATIONS - ACADEMIC PREPARATION OF SECONDARY SCHOOL EARTH SCIENCE TEACHERS
 JOURNAL OF GEOLOGICAL EDUCATION
 02 00 66 4
 *EARTH SCIENCE, *PROFESSIONAL EDUCATION, *SECONDARY SCHOOL TEACHERS, *TEACHER
 EDUCATION, CERTIFICATION, GEOLOGY, MATHEMATICS, UNDERGRADUATE STUDY, NATIONAL
 SCIENCE TEACHERS ASSOCIATION, EARTH SCIENCE CURRICULUM PROJECT, NATIONAL
 ASSOCIATION OF GEOLOGY TEACHERS, ASSOCIATION FOR THE EDUCATION OF TEACHERS OF
 SCIENCE, COUNCIL FOR THE EDUCATION OF TEACHERS OF SCIENCE
47. SE 004 782 1 11 43 20
 MERRILL, WILLIAM M.; SHRUM, JOHN W.
 PLANNING FOR EARTH SCIENCE TEACHER PREPARATION
 JOURNAL OF GEOLOGICAL EDUCATION
 02 00 66 3
 *EDUCATIONAL PROGRAMS, *EARTH SCIENCE, *SECONDARY SCHOOL SCIENCE, *TEACHER
 EDUCATION, CERTIFICATION, EDUCATIONAL IMPROVEMENT, EARTH SCIENCE CURRICULUM
 PROJECT, PANEL ON EARTH SCIENCE TEACHER PREPARATION, COUNCIL ON EDUCATION IN
 THE GEOLOGICAL SCIENCES
48. SE 004 321 2 11 93 17
 MILLIKER, DON QUENTIN
 AN EVALUATION OF NATIONAL SCIENCE FOUNDATION INSTITUTES BY THE PARTICIPANTS
 OKLAHOMA STATE UNIVERSITY, OKLAHOMA CITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 64 172
 *INSERVICE TEACHER EDUCATION, *MATHEMATICS TEACHERS, *SCIENCE TEACHERS, *SUMMER
 INSTITUTES, *SCIENCE INSTITUTES, *TEACHER EDUCATION, DOCTORAL THESES, GRADUATE
 STUDY, MATHEMATICS INSTITUTES, PROGRAM EVALUATION, RESEARCH REPORTS, TEACHING
 METHODS, TRAINING PROGRAMS, OKLAHOMA STATE UNIVERSITY, KANSAS STATE COLLEGE OF
 PITTSBURGH, NATIONAL SCIENCE FOUNDATION, 1964

49. SE 005 150 3 11 82 17
 MITIAS, RAGY GEORGY EL-KOMOS
 PATTERNS OF PROBLEM SOLVING BEHAVIOR AMONG PROSPECTIVE SCIENCE TEACHERS
 THE OHIO STATE UNIVERSITY, COLUMBUS
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 025 416 NOT AVAILABLE FROM EDRS
 67 201
 *COLLEGE SCIENCE, *PRESERVICE EDUCATION, *PROBLEM SOLVING, *STUDENT BEHAVIOR,
 *TEACHER EDUCATION, BEHAVIOR, DOCTORAL THESES
50. SE 004 036 3 11 83 17
 MOLCHEN, KENNETH JOSEPH
 A STUDY OF CHANGES IN INTENTIONS, PERCEPTIONS, AND CLASSROOM VERBAL BEHAVIOR
 OF SCIENCE INTERNS AND APPRENTICES
 HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 022 666 NOT AVAILABLE FROM EDRS
 67 390
 *BEHAVIOR, *TEACHER EDUCATION, *TEACHER INTERNS, DOCTORAL THESES, TEACHER ROLE,
 RESEARCH REPORTS, HARVARD UNIVERSITY, FLANDERS INTERACTION ANALYSIS
51. SE 004 193 1 11 92 29
 NEAL, VICTOR T.
 OCEANOGRAPHY FOR TEACHERS
 THE SCIENCE TEACHER
 02 00 68 1
 *EDUCATIONAL PROGRAMS, *OCEANOLOGY, *SUMMER PROGRAMS, *TEACHER EDUCATION,
 *ELEMENTARY SCHOOL SCIENCE, SECONDARY SCHOOL SCIENCE, OREGON STATE UNIVERSITY
52. SE 005 692 3 11 42 29
 NICODEMUS, ROBERT B.
 A SUMMER PROGRAM FOR TEACHERS OF EARTH SCIENCE CURRICULUM PROJECT MATERIALS
 EDRS
 ED 024 606 MF \$0.25 HC \$1.15
 68 21
 *EARTH SCIENCE, *PROGRAM DESCRIPTIONS, *SECONDARY SCHOOL SCIENCE, *SUMMER
 INSTITUTES, *TEACHER EDUCATION, EDUCATIONAL PROGRAMS, SCIENCE COURSE IMPROVEMENT
 PROJECT, EARTH SCIENCE CURRICULUM PROJECT, INVESTIGATING THE EARTH, COOPERATIVE
 COLLEGE-SCHOOL SCIENCE PROGRAM, NATIONAL SCIENCE FOUNDATION, 1968

53. SE 004 384 1 11 29 17
 ORLICH, DONALD C.; SEELING, ROBERT H.
 SCIENCE PREPARATION OF IDAHO BIOLOGY TEACHERS COMPARED WITH AAAS COOPERATIVE
 COMMITTEE RECOMMENDATIONS
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 2
 *BIOLOGY, *SCIENCE TEACHERS, *SECONDARY SCHOOL SCIENCE, *STATE SURVEYS, *TEACHER
 EDUCATION, RESEARCH REPORTS, IDAHO, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF
 SCIENCE, 1965
54. SE 005 463 1 19 72 17
 PERKES, VICTOR A.
 JUNIOR HIGH SCHOOL SCIENCE TEACHER PREPARATION, TEACHING BEHAVIOR, AND STUDENT
 ACHIEVEMENT
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 6
 *ACADEMIC ACHIEVEMENT, *JUNIOR HIGH SCHOOL, *SECONDARY SCHOOL SCIENCE, *TEACHER
 EDUCATION, *TEACHER BEHAVIOR, GENERAL SCIENCE, RESEARCH REPORTS, SEQUENTIAL
 TEST OF EDUCATIONAL PROGRESS, JUNIOR HIGH SCHOOL SCIENCE ACHIEVEMENT TEST,
 SCIENCE TEACHING OBSERVATION INSTRUMENT
55. SE 005 748 1 11 92 29
 PITTSYLVANIA COUNTY SCHOOLS
 SCIENCE WORKSHOP
 PITTSYLVANIA COUNTY SCHOOLS, CHATHAM, VIRGINIA
 07 00 68 9
 *CURRICULUM GUIDES, *ELEMENTARY SCHOOL SCIENCE, *TEACHING GUIDES, CURRICULUM
 DEVELOPMENT, INSERVICE TEACHER EDUCATION, PROGRAM DESCRIPTIONS, SUMMER
 WORKSHOPS, TEACHER EDUCATION, PITTSYLVANIA COUNTY, CHATHAM, VIRGINIA, 1968
56. SE 004 138 2 11 81 11
 RENNER, JOHN W.; RAGAN, WILLIAM B.
 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL
 UNIVERSITY OF OKLAHOMA, NORMAN
 HARPER AND ROW PUBLISHERS, INC., NEW YORK, NEW YORK
 68 360
 *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *TEACHER EDUCATION, *TEACHING
 TECHNIQUES, CRITICAL THINKING, EVALUATION, INQUIRY TRAINING, INSTRUCTIONAL
 MATERIALS, SCIENCE ACTIVITIES, TEXTBOOKS, 1968

57. SE 005 164 1 11 83 17
 REYNOLDS, GEORGE WILLIAM
 THE USEFULNESS OF THE PORTABLE VIDEO RECORDER IN SUPERVISING STUDENT TEACHERS
 OF SCIENCE
 OHIO STATE UNIVERSITY, COLUMBUS, OHIO
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 131
 *STUDENT TEACHING, *SUPERVISORY METHODS, *TEACHER EDUCATION, DOCTORAL THESES,
 RESEARCH REPORTS, VIDEO TAPE RECORDINGS, PROFESSIONAL-EMPLOYEE ROLE CONCEPT
 SCALE, 1966
58. SE 004 329 2 11 85 17
 ROBINETTE, WALTER ROLAND
 A DESCRIPTIVE ANALYSIS OF A SCIENCE EDUCATION WORKSHOP AND OUTCOMES AS
 REFLECTED IN CLASSROOM PRACTICES
 ALABAMA POLYTECHNIC INSTITUTE
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 57 297
 *INSERVICE EDUCATION, *SCIENCE EDUCATION, *TEACHER EDUCATION, TEACHING
 EFFECTIVENESS, WORKSHOPS, ALBAMA, 1957
59. SE 004 379 1 11 29 29
 RUTLEDGE, JAMES A.
 PREPARING SECONDARY SCHOOL TEACHERS FOR 1980
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 8
 *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, CURRICULUM PLANNING, EDUCATIONAL
 INNOVATION, EDUCATIONAL PROGRAMS, SCIENCE TEACHERS
60. SE 004 042 3 11 53 17
 SANDERS, LEROY JOHN
 AEROSPACE EDUCATION FOR TEACHERS BASED ON RECOMMENDATIONS OF SELECTED AVIATION
 AND SPACE INDUSTRIES
 COLORADO STATE COLLEGE, GREELEY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 022 669 NOT AVAILABLE FROM EDRS
 67 177
 *AEROSPACE TECHNOLOGY, *COLLEGE SCIENCE, *TEACHER EDUCATION, ELEMENTARY SCHOOL
 TEACHERS, PHYSICAL SCIENCES, SECONDARY SCHOOL TEACHERS, SCIENCES, SCHOOL
 INDUSTRY RELATIONSHIP, RESEARCH REPORTS

61. SE 004 269 1 11 34 29
 SCHAEFER, DONALD A.; KROCKOVER, GERALD H.
 SUMMER PHYSICS PROGRAM FOR ELEMENTARY SCHOOL TEACHERS
 THE SCIENCE TEACHER
 03 00 68 4
 *ELEMENTARY SCHOOL TEACHER, *ELEMENTARY SCHOOL SCIENCE, *PHYSICS, *TEACHER
 EDUCATION, EDUCATIONAL PROGRAM, PROGRAM DESCRIPTIONS, CONTINUING EDUCATION,
 PHYSICAL SCIENCE STUDY COMMITTEE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF
 SCIENCE, UNITED STATES OFFICE OF EDUCATION, BETTENDORF PUBLIC SCHOOLS, IOWA,
 MARYCREST COLLEGE, DAVENPORT, AAAS SCIENCE PROCESS MEASURE FOR TEACHERS,
 TEST ON UNDERSTANDING SCIENCE, 1968
62. SE 004 960 1 11 09 32
 SCHOOL MATHEMATICS STUDY GROUP
 SMSG NEWSLETTER NO. 19 - REPORT OF A SURVEY OF IN-SERVICE PROGRAMS FOR
 MATHEMATICS TEACHERS
 SCHOOL MATHEMATICS STUDY GROUP, STANFORD UNIVERSITY, CALIFORNIA
 09 00 64 31
 *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS,
 *PROFESSIONAL CONTINUING EDUCATION, *TEACHER EDUCATION, EDUCATIONAL PROGRAMS,
 MATHEMATICS TEACHERS, SURVEYS, TEACHERS, SCHOOL MATHEMATICS STUDY GROUP, 1964
63. SE 004 781 1 11 42 17
 SHEA, JAMES H.
 HIGHLIGHTS OF 1965 ESCP SURVEY OF EARTH SCIENCE TEACHERS
 JOURNAL OF GEOLOGICAL EDUCATION
 02 00 66 4
 *EARTH SCIENCE, *TEACHER EDUCATION, GENERAL SCIENCE, RESEARCH REPORTS, *SECONDARY
 SCHOOL TEACHERS, EARTH SCIENCE CURRICULUM PROJECT
64. SE 004 783 1 11 43 06
 SHRUM, JOHN W.
 RECOMMENDATIONS FOR A BASIC ACADEMIC PREPARATION FOR EARTH SCIENCE TEACHERS
 JOURNAL OF GEOLOGICAL EDUCATION
 02 00 66 3
 *CONFERENCE REPORTS, *EARTH SCIENCE, *EARTH SCIENCE TEACHERS, *SECONDARY SCHOOL
 SCIENCE, *TEACHER EDUCATION, UNDERGRADUATE STUDY, EARTH SCIENCE, CURRICULUM
 PROJECT, AMERICAN GEOLOGICAL INSTITUTE
65. SE 004 213 1 11 86 20
 SOAR, ROBERT S.
 NEW DEVELOPMENTS IN EFFECTIVE TEACHING
 THE AMERICAN BIOLOGY TEACHER
 01 00 68 5
 *EVALUATION, *EFFECTIVE TEACHING, *TEACHER EDUCATION, CLASSROOM RESEARCH,
 EVALUATION, EVALUATION TECHNIQUES, INTERACTION PROCESS ANALYSIS, PAPERS, TEACHER
 BEHAVIOR, VERBAL BEHAVIOR

66. SE 004 819 2 11 95 37
 SUTMAN, FRANK K.; AND OTHERS
 A CAREER FOR YOU AS A SCIENCE TEACHER
 NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.
 66 14
 *OCCUPATIONAL INFORMATION, *PROFESSIONAL TRAINING, *SCIENCE TEACHING CAREERS,
 *TEACHER ROLE, *TEACHER EDUCATION, COLLEGE TEACHING, CAREERS, ELEMENTARY
 SCHOOL SCIENCE, NATIONAL MERIT SCHOLARSHIPS, NATIONAL EDUCATION ASSOCIATION,
 NATIONAL SCIENCE TEACHERS ASSOCIATION
67. SE 005 990 1 11 83 17
 SWEENEY, MARGARET WILSON
 THE EFFECTS OF TWO ORGANIZATIONAL PATTERNS OF MICROSIMULATED TEACHING EXPERIENCES
 ON THE VERBAL BEHAVIOR OF STUDENT TEACHERS TRAINED AND NOT TRAINED IN
 INTERACTION ANALYSIS
 WEST VIRGINIA UNIVERSITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 68 173
 *INTERACTION PROCESS ANALYSIS, *MICROTEACHING, *STUDENT TEACHERS, *TEACHER
 EDUCATION, DOCTORAL THESES, RESEARCH REPORTS, SIMULATION, TEACHER CHARACTERISTICS,
 TEACHING TECHNIQUES, TEACHER BEHAVIOR
68. SE 005 021 1 11 83 11
 TANNENBAUM, HAROLD E.; AND OTHERS
 SCIENCE EDUCATION FOR ELEMENTARY SCHOOL TEACHERS, SECOND EDITION
 ALLYN AND BACON, INC., BOSTON, MASSACHUSETTS
 65 349
 *ELEMENTARY SCHOOL TEACHERS, *INSTRUCTIONAL MATERIALS, *SCIENCE TEACHING,
 *TEACHING METHODS, *TEACHER EDUCATION, GRADUATE STUDY, SCIENCE EDUCATION,
 TEXTBOOKS, UNDERGRADUATE STUDY
69. SE 004 676 1 11 86 20
 THIMANN, KENNETH V.
 THE CANDIDATES' DEGREE - IS THE PH.D. DEGREE INADEQUATE?
 BIOSCIENCE
 03 00 68 2
 *DOCTORAL DEGREES, *EDUCATIONAL PROBLEMS, *GRADUATE STUDY, *TEACHER EDUCATION,
 COLLEGE PROGRAMS, EDUCATIONAL PROGRAMS, SCIENCE EDUCATION HISTORY
70. SE 004 049 3 11 83 17
 TILLERY, BILL
 IMPROVEMENT OF SCIENCE EDUCATION METHODS COURSES THROUGH STUDENT SELF-EVALUATION
 COLORADO STATE COLLEGE, GREELEY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 021 719 NOT AVAILABLE FROM EDRS
 67 124
 *EVALUATION, *METHODS COURSES, *SELF EVALUATION, *TEACHER EDUCATION, COLLEGE
 STUDENTS, DOCTORAL THESES, ELEMENTARY SCHOOL SCIENCE, RESEARCH REPORTS, COLORADO
 STATE COLLEGE, STUDENT EVALUATION OF ACHIEVEMENT, 1967

71. SE 005 667 1 11 92 20
 TURNER, GEORGE C.
 THE INTERN-MASTER'S DEGREE PROGRAM - A NEW APPROACH FOR BOTH TEACHERS AND STUDENTS
 THE SCIENCE TEACHER
 11 00 68 2
 *COLLEGE SCIENCE, *MATHEMATICS, *MASTERS DEGREES, *SECONDARY SCHOOL SCIENCE,
 *TEACHER EDUCATION, *TEACHER INTERNS, EDUCATIONAL PROGRAMS, CALIFORNIA STATE
 COLLEGE AT FULLERTON, NATIONAL SCIENCE FOUNDATION, 1968
72. SE 005 924 1 11 92 17
 TWEETEN, PAUL W.; YAGER, ROBERT F.
 CONTENT PREPARATION OF SCIENCE TEACHERS IN IOWA
 SCHOOL SCIENCE AND MATHEMATICS
 12 00 68 4
 *ACADEMIC EDUCATION, *SCIENCE TEACHERS, *SECONDARY SCHOOL SCIENCE, *TEACHER
 CHARACTERISTICS, *TEACHER EDUCATION, BIOLOGY, CHEMISTRY, PHYSICS, STATE SURVEYS,
 IOWA, 1968
73. SE 004 875 3 11 53 17
 WEICHLINGER, THEODORE
 THE DETERMINATION OF SUITABLE LABORATORY EXPERIENCES FOR A PHYSICAL SCIENCE
 COURSE FOR PROSPECTIVE ELEMENTARY SCHOOL TEACHERS
 COLORADO STATE COLLEGE, GREELEY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 020 899 NOT AVAILABLE FROM EDRS
 67 271
 *DOCTORAL THESES, *ELEMENTARY SCHOOL SCIENCE, *PHYSICAL SCIENCES, *SCIENCE
 TEACHERS, *TEACHER EDUCATION, *UNDERGRADUATE STUDY, CHEMISTRY, LABORATORY
 PROCEDURES, LABORATORY EXPERIMENTS, SCIENCE COURSES, RESEARCH REPORTS, COLORADO
 STATE COLLEGE
74. SE 005 461 1 11 34 17
 WELCH, WAYNE W.; WALBERG, HERBERT J.
 AN EVALUATION OF SUMMER INSTITUTE PROGRAMS FOR PHYSICS TEACHERS
 JOURNAL OF RESEARCH ON SCIENCE TEACHING
 68 5
 *ACHIEVEMENT, *PHYSICS TEACHERS, *SECONDARY SCHOOL SCIENCE, *SUMMER INSTITUTES,
 *TEACHER EDUCATION, CONTINUING EDUCATION, EVALUATION, RESEARCH REPORTS, TEST ON
 UNDERSTANDING SCIENCE, TEST ON SELECTED TOPICS IN PHYSICS, WELCH SCIENCE PROCESS
 INVENTORY, READ GENERAL SCIENCE TEST

75. SE 004 053 3 11 91 17
 WILSON, JOHN HAROLD
 DIFFERENCES BETWEEN THE INQUIRY-DISCOVERY AND THE TRADITIONAL APPROACHES TO
 TEACHING SCIENCE IN ELEMENTARY SCHOOLS
 UNIVERSITY OF OKLAHOMA, NORMAN
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 021 721 NOT AVAILABLE FROM EDRS
 67 101
 *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL TEACHER, *ELEMENTARY SCHOOL SCIENCE,
 *INSTRUCTION, *TEACHER EDUCATION, COGNITIVE DEVELOPMENT, CRITICAL THINKING,
 INQUIRY TRAINING, INSERVICE TEACHER EDUCATION, QUESTIONING TECHNIQUES, SCIENCE
 COURSE IMPROVEMENT PROJECT, TEACHER CHARACTERISTICS, TEACHING METHODS, TEACHING
 PROCEDURES, RESEARCH REPORTS, SCIENCE CURRICULUM IMPROVEMENT STUDY, 1967
76. SE 004 878 3 11 83 17
 WITTEWER, FRANKLIN ALFRED
 AN EVALUATION OF THE NATIONAL SCIENCE FOUNDATION RESEARCH PARTICIPATION PROGRAM
 FOR HIGH SCHOOL SCIENCE TEACHERS AT THE UNIVERSITY OF WISCONSIN
 UNIVERSITY OF WISCONSIN, MADISON
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 023 582 NOT AVAILABLE FROM EDRS
 67 113
 *RESEARCH, *RESEARCH SKILLS, *SCIENCE EDUCATION, *SCIENCE INSTITUTES, *TEACHER
 EDUCATION, DOCTORAL THESES, GRADUATE STUDY, NATIONAL SCIENCE FOUNDATION,
 UNIVERSITY OF WISCONSIN, RESEARCH PARTICIPATION PROGRAM, SCIENCE PROCESS INVENTORY,
 ACADEMIC YEAR EXTENSION, 1967
77. SE 005 872 1 11 54 20
 WRIGHT, KENNETH
 A RADIO COURSE FOR PHYSICAL SCIENCE TEACHERS
 SCHOOL SCIENCE AND MATHEMATICS
 10 00 68 6
 *EDUCATIONAL PROGRAMS, *PROGRAM DESCRIPTIONS, *RADIO TECHNOLOGY, *SCIENCE TEACHERS,
 *SCIENCE COURSES, *TEACHER EDUCATION, CONTINUING EDUCATION, PHYSICAL SCIENCES,
 SCIENCE EQUIPMENT, SCIENCE MATERIALS, CENTRAL MICHIGAN UNIVERSITY
78. SE 004 060 3 11 83 17
 YULO, RALPH JAMES
 AN EXPLORATION OF THE FLANDERS SYSTEM OF INTERACTION ANALYSIS AS A SUPERVISORY
 DEVICE WITH SCIENCE INTERNS
 HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 ED 023 574 NOT AVAILABLE FROM EDRS
 67 441
 *INTERACTION PROCESS ANALYSIS, *STUDENT TEACHING, *TEACHER EDUCATION, *SCIENCE
 EDUCATION, DOCTORAL THESES, EVALUATION, SELF EVALUATION, SUPERVISORY METHODS,
 SUPERVISION, VERBAL COMMUNICATION, HARVARD UNIVERSITY, FLANDERS SYSTEM OF
 INTERACTION ANALYSIS, 1967

79. SE 004 237 3 11 85 20
 ASSOCIATION FOR THE EDUCATION OF TEACHERS OF SCIENCE. COMPILATION OF PAPERS
 AND REPORTS FROM SESSIONS HELD IN CONJUNCTION WITH THE CONVENTION OF THE
 NATIONAL SCIENCE TEACHERS ASSOCIATION (NEW YORK CITY, APRIL 1, 2, 1966).
 NATIONAL SCIENCE TEACHERS ASSOCIATION, WASHINGTON, D.C.
 EDRS
 ED 017 471 MF \$0.25 HC \$2.75
 66 53
 *DOCTORAL PROGRAMS, *INSTRUCTION, *METHODS COURSES, *PROFESSIONAL EDUCATION,
 *SCIENCE EDUCATION, *TEACHER EDUCATION, *TEACHER CERTIFICATION, BOTANY,
 CULTURALLY DISADVANTAGED, COLLEGE SCIENCE, ELEMENTARY SCHOOL SCIENCE, EDUCATIONAL
 RESEARCH, GRADUATE STUDY, INDIVIDUAL INSTRUCTION, JUNIOR COLLEGES, RESEARCH
 OPPORTUNITIES, SECONDARY SCHOOL SCIENCE
80. SE 004 347 1 11 81 20
 THE CCSS PROGRAM OF THE NATIONAL SCIENCE FOUNDATION
 SCIENCE AND CHILDREN
 03 00 68 2
 *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *TEACHER EDUCATION,
 EDUCATIONAL PROGRAMS, INSERVICE EDUCATION, SUMMER INSTITUTES, NATIONAL SCIENCE
 FOUNDATION, SCIENCE CURRICULUM IMPROVEMENT STUDY, ELEMENTARY SCIENCE STUDY
 PROJECT, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, COOPERATIVE
 COLLEGE-SCHOOL SCIENCE
81. SE 004 722 1 11 45 32
 EARTH SCIENCE CURRICULUM PROJECT NEWSLETTER, NO. 16
 EARTH SCIENCE CURRICULUM PROJECT, BOULDER, COLORADO
 05 00 68 8
 *EARTH SCIENCE, *ENROLLMENT TRENDS, *INSTITUTES (TRAINING PROGRAMS), *SECONDARY
 SCHOOL SCIENCE, *TEACHER EDUCATION, COMPUTERS, CONFERENCES, NEWSLETTERS, NATIONAL
 SURVEYS, TEACHER BACKGROUND, TEACHER WORKSHOPS, TEACHING TECHNIQUES, EARTH
 SCIENCE CURRICULUM PROJECT, NATIONAL SCIENCE FOUNDATION, COOPERATIVE COLLEGE
 SCHOOL SCIENCE PROGRAM
82. SE 004 769 1 11 95 06
 GUIDELINES FOR CONTENT OF PRESERVICE PROFESSIONAL EDUCATION FOR SECONDARY SCHOOL
 SCIENCE TEACHERS
 THE SCIENCE TEACHER
 05 00 68 6
 *CERTIFICATION, *PRESERVICE EDUCATION, *SCIENCE TEACHERS, *TEACHER EDUCATION,
 CONFERENCE REPORTS, CURRICULUM DEVELOPMENT, EVALUATION, GENERAL EDUCATION,
 PHILOSOPHY, PROFESSIONAL EDUCATION, SECONDARY SCHOOL SCIENCE, ASSOCIATION FOR
 THE EDUCATION OF TEACHERS IN SCIENCE, COOPERATIVE COMMITTEE ON THE TEACHING OF
 SCIENCE AND MATHEMATICS, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
83. SE 005 391 1 11 84 37
 IN-SERVICE EDUCATION PROGRAM
 KANAWHA COUNTY SCHOOLS, CHARLESTON, WEST VIRGINIA
 68 43
 *CURRICULUM, *COURSE DESCRIPTIONS, *EDUCATIONAL PROGRAMS, *INSERVICE TEACHER
 EDUCATION, *TEACHER EDUCATION, ELEMENTARY TEACHERS, FOREIGN LANGUAGES, HOME
 ECONOMICS, INDUSTRIAL ARTS, SOCIAL STUDIES, SECONDARY TEACHERS, SCIENCES, 1968,
 KANAWHA COUNTY SCHOOLS, CHARLESTON, WEST VIRGINIA, DEPARTMENT OF INSTRUCTION

84. SE 004 107 1 11 32 06
 THE MOST PRESSING PROBLEM IN PHYSICS
 THE PHYSICS TEACHER
 01 00 68 2
 *CONFERENCE REPORTS, *PHYSICS, *TEACHER EDUCATION, *SECONDARY SCHOOL SCIENCE,
 EDUCATIONAL PROBLEMS, MATHEMATICS, TEACHER SUPPLY AND DEMAND, STUDENT ENROLLMENT,
 TEACHER RECRUITMENT, COMMISSION ON COLLEGE PHYSICS, NATIONAL ACADEMY OF SCIENCE,
 NATIONAL EDUCATION ASSOCIATION
85. SE 004 295 1 11 95 29
 NSF COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAMS
 SCHOOL SCIENCE AND MATHEMATICS
 03 00 68 11
 *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *INSERVICE EDUCATION,
 *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION, BIOLOGY, CHEMISTRY, EDUCATIONAL
 PROGRAMS, EARTH SCIENCE, ENGINEERING, PHYSICAL SCIENCES, PHYSICS, SCIENCE
 CURRICULUM IMPROVEMENT STUDY, CHEMICAL EDUCATION MATERIALS STUDY, EARTH SCIENCE
 CURRICULUM PROJECT, ELEMENTARY SCIENCE STUDY PROJECT, BIOLOGICAL SCIENCES
 CURRICULUM STUDY, MADISON PROJECT, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF
 SCIENCE, UNIVERSITY OF ILLINOIS COMMITTEE ON SCHOOL MATHEMATICS, INTRODUCTORY
 PHYSICAL SCIENCE, ENGINEERING CONCEPT CURRICULUM PROJECT, PHYSICAL SCIENCE
 STUDY COMMITTEE, NATIONAL SCIENCE FOUNDATION
86. SE 004 720 1 11 91 29
 OCCASION FOR CHANGE
 FLINT HILLS ELEMENTARY SCIENCE PROJECT, EMPORIA, KANSAS
 66 16
 *EDUCATIONAL PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *INSERVICE TEACHER EDUCATION,
 *PROGRAM DESCRIPTIONS, TEACHER EDUCATION, FLINT HILLS ELEMENTARY SCIENCE PROJECT,
 ELEMENTARY AND SECONDARY EDUCATION ACT, TITLE III
87. SE 004 106 1 11 32 02
 THE RECRUITMENT AND PREPARATION OF TEACHERS
 THE PHYSICS TEACHER
 01 00 68 2
 *ESSAYS, *PHYSICS, *TEACHER RECRUITMENT, *TEACHER EDUCATION, *TEACHER SUPPLY AND
 DEMAND, EDUCATIONAL PROBLEMS, COMMISSION ON COLLEGE PHYSICS, 1968, AMERICAN
 INSTITUTE OF PHYSICS, AMERICAN ASSOCIATION OF PHYSICS TEACHERS
88. SE 004 218 3 11 95 03
 SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 2 - TEACHER EDUCATION
 ERIC INFORMATION ANALYSIS CENTER FOR SCIENCE EDUCATION, COLUMBUS, OHIO
 EDRS
 ED 015 879 MF \$0.25 HC \$2.35
 12 00 67 45
 *BIOLOGY, *CURRICULUM DEVELOPMENT, *COLLEGE SCIENCE, *CHEMISTRY, *EDUCATIONAL
 PROGRAMS, *ELEMENTARY SCHOOL SCIENCE, *EARTH SCIENCE, *PHYSICS, *PROGRAM
 DESCRIPTIONS, *PROGRAM EVALUATION, *SECONDARY SCHOOL SCIENCE, *TEACHER EDUCATION,
 GRADUATE STUDY, METHODS COURSES, MATHEMATICS EDUCATION, PHYSICAL SCIENCES,
 TEACHER CERTIFICATION, TEACHER CHARACTERISTICS

B. MATHEMATICS EDUCATION

1. SE 004 158 3 11 09 06
ANDERSON, RICHARD D.
QUALIFICATIONS FOR A COLLEGE FACULTY IN MATHEMATICS
COMMITTEE ON THE UNDERGRADUATE PROGRAM IN MATHEMATICS, BERKELEY, CALIFORNIA
EDRS
ED 017 464 MF \$0.25 HC \$1.15
01 00 67 21
*COLLEGE FACULTY, *COLLEGE TEACHERS, *MATHEMATICS, *TEACHER QUALIFICATIONS,
*TEACHER EDUCATION, COLLEGE MATHEMATICS, FACULTY, HIGHER EDUCATION, MATHEMATICS
TEACHERS, NATIONAL SCIENCE FOUNDATION, MATHEMATICAL ASSOCIATION OF AMERICA
2. SE 004 143 1 11 09 29
ARKANSAS STATE DEPARTMENT OF EDUCATION
IN-SERVICE MATHEMATICS PROGRAM FOR ARKANSAS CLASSROOM TEACHERS
ARKANSAS STATE DEPARTMENT OF EDUCATION, LITTLE ROCK, ARKANSAS
5
*MATHEMATICS, *TEACHER EDUCATION, COURSE CONTENT, IN-SERVICE TEACHER EDUCATION,
INSTRUCTIONAL MATERIALS, PROGRAMED INSTRUCTION, ARKANSAS STATE DEPARTMENT OF
EDUCATION, IMPACT PROGRAM
3. SE 004 474 1 11 09 06
ASHER, LUCILE
ONE APPROACH TO MODERNIZING THE MATHEMATICS CURRICULUM IN THE ELEMENTARY SCHOOL
KANSAS STATE DEPARTMENT OF PUBLIC INSTRUCTION, LITTLE ROCK, ARKANSAS
66 10
*CURRICULUM, *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION,
*MATHEMATICS, *TEACHER EDUCATION, GUIDELINES, INSTRUCTION
4. SE 004 724 1 11 09 22
CALIFORNIA STATE DEPARTMENT OF EDUCATION
GUIDELINES FOR MILLER MATHEMATICS IMPROVEMENT PROGRAMS, SPECIALIZED TEACHER
PROJECT
CALIFORNIA STATE DEPARTMENT OF EDUCATION, SACRAMENTO, CALIFORNIA
68 10
*ELEMENTARY SCHOOL MATHEMATICS, *GUIDELINES, *INSERVICE EDUCATION, *MATHEMATICS,
*TEACHER EDUCATION, CURRICULUM, CURRICULUM DEVELOPMENT, EDUCATIONAL OBJECTIVES,
SECONDARY SCHOOL MATHEMATICS, CALIFORNIA

5. SE 005 109 1 11 09 17
 CALLAHAN, LEROY G.
 A STUDY OF KNOWLEDGE POSSESSED BY ELEMENTARY SCHOOL TEACHERS, IN-SERVICE AND
 IN-TRAINING, OF THE CULTURAL, PSYCHOLOGICAL, AND MATHEMATICAL FOUNDATIONS OF
 THE ELEMENTARY SCHOOL MATHEMATICS PROGRAM
 SYRACUSE UNIVERSITY, NEW YORK
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 173
 *ACHIEVEMENT, *ELEMENTARY SCHOOL TEACHERS, *ELEMENTARY SCHOOL MATHEMATICS,
 *PRESERVICE EDUCATION, *TEACHER EDUCATION, INSERVICE TEACHER EDUCATION,
 MATHEMATICS TEACHERS, PROFESSIONAL EDUCATION, PSYCHOLOGICAL CHARACTERISTICS,
 TEACHER QUALIFICATIONS, DOCTORAL THESES
6. SE 005 092 3 11 09 11
 DAVIS, ROBERT B.
 EXPLORATIONS IN MATHEMATICS, A TEXT FOR TEACHERS
 SYRACUSE UNIVERSITY, NEW YORK; WEBSTER COLLEGE, ST. LOUIS, MISSOURI
 ADDISON-WESLEY PUBLISHING COMPANY, READING, MASSACHUSETTS
 ED 023 587 NOT AVAILABLE FROM EDRS
 67 421
 *CURRICULUM DEVELOPMENT, *ELEMENTARY SCHOOL MATHEMATICS, *MATHEMATICS,
 *SECONDARY SCHOOL MATHEMATICS, *TEACHER EDUCATION, ALGEBRA, CURRICULUM, INSERVICE
 COURSES, INSERVICE TEACHER EDUCATION, INSTRUCTIONAL MATERIALS, MATHEMATICAL
 CONCEPTS, MODERN MATHEMATICS, PROGRAM DEVELOPMENT, THE MADISON PROJECT
7. SE 004 693 3 11 09 29
 FENG, CHUAN C.
 COMPUTER RELATED MATHEMATICS AND SCIENCE CURRICULUM MATERIALS - A NATIONAL
 SCIENCE FOUNDATION COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAM IN COMPUTING
 SCIENCE EDUCATION
 BOULDER VALLEY SCHOOL DISTRICT, COLORADO; JEFFERSON COUNTY SCHOOL DISTRICT,
 COLORADO
 EDRS
 ED 022 677 MF \$1.00 HC \$11.90
 67 236
 *COMPUTER ORIENTED PROGRAMS, *CURRICULUM DEVELOPMENT, *SECONDARY SCHOOL MATHEMATICS,
 *SECONDARY SCHOOL SCIENCE, ALGEBRA, COMPUTER PROGRAMS, INSTRUCTION, MATHEMATICS,
 NUMBER CONCEPTS, PHYSICS, SCIENCES, TEACHER EDUCATION, COOPERATIVE COLLEGE-SCHOOL
 SCIENCE PROGRAM, NATIONAL SCIENCE FOUNDATION, UNIVERSITY OF COLORADO
8. SE 004 103 1 11 09 29
 FISHER, JOHN J.
 THE COLLEGIATE PREPARATION IN MATHEMATICS OF COLORADO SECONDARY SCHOOL TEACHERS
 WHO TEACH MATHEMATICS AS A SECOND SUBJECT
 COLORADO STATE DEPARTMENT OF EDUCATION, DENVER, COLORADO
 64 11
 *MATHEMATICS, *TEACHER EDUCATION, *MATHEMATICS TEACHERS, MATHEMATICS EDUCATION,
 RESEARCH REPORTS, SECONDARY SCHOOL TEACHERS, UNDERGRADUATE STUDY, COLORADO, 1965

9. SE 004 104 3 11 09 17
 FISHER, JOHN J.; AND OTHERS
 PRE-SERVICE AND IN-SERVICE EDUCATION IN MATHEMATICS OF COLORADO ELEMENTARY SCHOOL
 TEACHERS - A STATUS REPORT
 COLORADO STATE DEPARTMENT OF EDUCATION, DENVER, COLORADO
 EDRS
 ED 023 576 MF \$0.25 HC \$0.40
 10 09 65 6
 *INSERVICE TEACHER EDUCATION, *MATHEMATICS, *PRESERVICE EDUCATION, ELEMENTARY
 SCHOOL MATHEMATICS, RESEARCH REPORTS, TEACHER EDUCATION, COLORADO, 1965
10. SE 004 528 3 11 09 29
 FULBRIGHT, CARLETON B.; AND OTHERS
 DESCRIPTIVE OUTLINE OF MISSOURI'S INSERVICE TEACHER EDUCATION PROGRAM IN ELEMENTARY
 MATHEMATICS
 MISSOURI STATE DEPARTMENT OF EDUCATION, JEFFERSON CITY
 EDRS
 ED 018 398 MF \$0.25 HC \$0.60
 66 10
 *ELEMENTARY SCHOOL MATHEMATICS, *INSERVICE TEACHER EDUCATION, *MATHEMATICS,
 *TEACHER EDUCATION, CURRICULUM, INSTRUCTIONAL MATERIALS, MISSOURI
11. SE 005 860 3 11 09 17
 HIVELEY, WELLS II
 PROGRAMMED CORRESPONDENCE COURSES IN ALGEBRA AND GEOMETRY FOR INSERVICE TEACHER
 TRAINING - FIELD STUDIES
 MINNESOTA STATE DEPARTMENT OF EDUCATION, ST. PAUL
 EDRS
 ED 025 430 MF \$0.75 HC \$7.85
 08 00 68 155
 *ALGEBRA, *GEOMETRY, *INSERVICE TEACHER EDUCATION, *SECONDARY SCHOOL MATHEMATICS,
 *TEACHER EDUCATION, CURRICULUM, EFFECTIVE TEACHING, GRADE 9, GRADE 10, GRADE 11,
 MATHEMATICS, MATHEMATICS TEACHERS, PROGRAMED INSTRUCTION
12. SE 005 922 1 11 09 20
 JOHNSON, DONAVAN A.
 THE DOCTORATE IN MATHEMATICS EDUCATION
 SCHOOL SCIENCE AND MATHEMATICS
 12 00 68 5
 *CURRICULUM DEVELOPMENT, *DOCTORAL PROGRAMS, *GUIDELINES, *MATHEMATICS EDUCATION,
 *TEACHER EDUCATION, CURRICULUM
13. SE 004 975 3 11 91 17
 KANE, ROBERT B.
 USE OF THE SEMANTIC DIFFERENTIAL TECHNIQUE TO MEASURE PROSPECTIVE ELEMENTARY SCHOOL
 TEACHER ATTITUDE TOWARD MATHEMATICS AND OTHER SUBJECTS. FINAL REPORT
 PURDUE UNIVERSITY, LAFAYETTE, INDIANA
 EDRS
 ED 021 761 MF \$0.50 HC \$3.40
 02 00 68 66
 *ATTITUDES, *ELEMENTARY SCHOOL TEACHERS, *MATHEMATICS, *TEACHER ATTITUDES, *TEACHER
 EDUCATION, EVALUATION TECHNIQUES, LANGUAGE ARTS, RESEARCH REPORTS, SOCIAL STUDIES,
 PURDUE UNIVERSITY, INDIANA, 1968

14. SE 005 142 2 11 84 17
 LEAKE, JOHN BENJAMIN
 A STUDY OF ATTITUDES OF ELEMENTARY TEACHERS TOWARD SCIENCE
 OKLAHOMA STATE UNIVERSITY, STILLWATER
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 66 97
 *ATTITUDES, *SCIENTIFIC ATTITUDES, *TEACHER EDUCATION, *TEACHER ATTITUDES,
 DOCTORAL THESES, EXTENSION EDUCATION, ELEMENTARY SCHOOL TEACHERS, RESEARCH
 REPORTS, TEACHER CHARACTERISTICS, OKLAHOMA STATE UNIVERSITY, 1966
15. SE 004 380 1 11 09 17
 MARTIN, BERNARD L.
 SPATIAL VISUALIZATION ABILITIES OF PROSPECTIVE MATHEMATICS TEACHERS
 JOURNAL OF RESEARCH IN SCIENCE TEACHING
 68 9
 *MATHEMATICS, *MATHEMATICS TEACHERS, *SPATIAL VISUALIZATION, *TEACHER
 CHARACTERISTICS, COMPARATIVE ANALYSIS, ELEMENTARY SCHOOL TEACHING, RESEARCH
 REPORTS, SECONDARY SCHOOL TEACHERS, TEACHER EDUCATION, VISUAL PERCEPTION
16. SE 005 286 1 11 85 20
 MCAULAY, J. D.
 TRAINING AND RETRAINING OF MATHEMATICS AND SCIENCE TEACHERS
 THE EDUCATION DIGEST
 03 00 65 3
 *COLLEGE SCIENCE, *CONTINUING EDUCATION, *TEACHER EDUCATION, MATHEMATICS
 TEACHERS, SCHOOL INDUSTRY RELATIONSHIP, SCIENCE TEACHERS
17. SE 004 321 2 11 93 17
 MILLIKER, DON QUENTIN
 AN EVALUATION OF NATIONAL SCIENCE FOUNDATION INSTITUTES BY THE PARTICIPANTS
 OKLAHOMA STATE UNIVERSITY, OKLAHOMA CITY
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 64 172
 *INSERVICE TEACHER EDUCATION, *MATHEMATICS TEACHERS, *SCIENCE TEACHERS,
 *SUMMER INSTITUTES, *SCIENCE INSTITUTES, *TEACHER EDUCATION, DOCTORAL THESES,
 GRADUATE STUDY, MATHEMATICS INSTITUTES, PROGRAM EVALUATION, RESEARCH REPORTS,
 TEACHING METHODS, TRAINING PROGRAMS, OKLAHOMA STATE UNIVERSITY, KANSAS STATE
 COLLEGE OF PITTSBURGH, NATIONAL SCIENCE FOUNDATION, 1964

18. SE 004 951 3 11 09 17
 POLLACK, HELEN
 SCHOOL MATHEMATICS STUDY GROUP REPORT NO. 3, A FILM-FILM TEXT STUDY
 STANFORD UNIVERSITY, CALIFORNIA, SCHOOL MATHEMATICS STUDY GROUP
 EDRS
 ED 021 757 MF \$0.50 HC \$3.00
 67 58
 *COMPARATIVE ANALYSIS, *ELEMENTARY SCHOOL TEACHERS, *INSERVICE TEACHER EDUCATION,
 *MATHEMATICS, *TEACHER EDUCATION, ACHIEVEMENT, ACADEMIC ACHIEVEMENT, CURRICULUM,
 CURRICULUM DEVELOPMENT, FILMS, INSTRUCTION, SCHOOL MATHEMATICS STUDY GROUP,
 NATIONAL SCIENCE FOUNDATION, 1967
19. SE 004 348 1 11 09 17
 REYS, ROBERT E.
 MATHEMATICAL COMPETENCIES OF ELEMENTARY EDUCATION MAJORS
 JOURNAL OF EDUCATIONAL RESEARCH
 02 00 68 2
 *ELEMENTARY SCHOOL TEACHERS, *MATHEMATICS, *TEACHER QUALIFICATIONS, *TEACHER
 CHARACTERISTICS, *TEACHER EDUCATION, ACADEMIC ABILITY, PERFORMANCE TESTS
20. SE 003 745 3 11 09 17
 ROSENBLUM, PAUL G.; AND OTHERS
 CHARACTERISTICS OF MATHEMATICS TEACHERS THAT AFFECT STUDENTS' LEARNING. FINAL
 REPORT
 MINNESOTA SCHOOL MATHEMATICS AND SCIENCE CENTER, UNIVERSITY OF MINNESOTA, MINNIAPOLIS
 EDRS
 ED 021 707 MF \$6.75 HC \$8.45
 09 00 66 167
 *INSTRUCTION, *LEARNING, *MATHEMATICS, *TEACHER CHARACTERISTICS, *SECONDARY
 SCHOOL MATHEMATICS, ACHIEVEMENT, CURRICULUM, TEACHER EDUCATION
21. SE 005 508 1 11 09 22
 ROTH, BROTHER GREGORY CARL
 PREPARATION AND QUALIFICATION OF THE MATHEMATICS TEACHERS IN THE HIGH SCHOOL
 CONDUCTED BY THE BROTHERS OF THE CHRISTIAN SCHOOLS, BALTIMORE DISTRICT, MARYLAND
 DAYTON UNIVERSITY, OHIO, SCHOOL OF EDUCATION
 08 00 66 2
 *MATHEMATICS TEACHERS, *SECONDARY SCHOOL TEACHERS, *TEACHER QUALIFICATIONS,
 *TEACHER EVALUATION, *TEACHER EDUCATION, PROFESSIONAL TRAINING, PROFESSIONAL
 EDUCATION, TEACHERS
22. SE 004 099 3 11 09 16
 SPROSS, PATRICIA M.
 ELEMENTARY ARITHMETIC AND LEARNING AIDS
 GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C.
 EDRS
 ED 017 457 MF \$0.75 HARD COPY NOT AVAILABLE
 65 142
 *ARITHMETIC, *CURRICULUM, *CURRICULUM GUIDES, *ELEMENTARY SCHOOL MATHEMATICS,
 *INSERVICE TEACHER EDUCATION, *INSTRUCTIONAL AIDS, *MATHEMATICS, *TEACHER EDUCATION

23. SE 004 929 1 11 09 20
 WILLERDING, MARGARET F.
 THE USELESSNESS OF MATHEMATICS (PART II)
 SCHOOL SCIENCE AND MATHEMATICS
 06 00 68 11
 *CREATIVITY, *MATHEMATICS EDUCATION, *RESEARCH SKILLS, DISCOVERY PROCESSES,
 HISTORY, MATHEMATICS, PROFESSIONAL CONTINUING EDUCATION, SCIENCE HISTORY
24. SE 004 833 1 11 09 22
 SETS AND SYSTEMS
 NATIONAL CENTER FOR SCHOOL AND COLLEGE TELEVISION
 4
 *ARITHMETIC, *INSTRUCTIONAL TELEVISION, *MATHEMATICS, *PROFESSIONAL CONTINUING
 EDUCATION, *TELEVISION, *TEACHER EDUCATION, CURRICULUM DEVELOPMENT, GEOMETRY,
 INSERVICE TEACHER EDUCATION
25. SE 005 545 1 11 09 22
 UNIVERSITY OF ILLINOIS ARITHMETIC PROJECT - INSTITUTE FOR ELEMENTARY SCHOOL
 TEACHERS
 UNIVERSITY OF ILLINOIS ARITHMETIC PROJECT, URBANA, ILLINOIS
 67 55
 *ARITHMETIC, *ELEMENTARY SCHOOL TEACHERS, *FUNDAMENTAL CONCEPTS, *INSTRUCTIONAL
 MATERIALS, *INSERVICE TEACHER EDUCATION, *TEACHER EDUCATION, ELEMENTARY SCHOOL
 MATHEMATICS, MATHEMATICAL CONCEPTS, NUMBER CONCEPTS, WHOLE NUMBERS, UNIVERSITY
 OF ILLINOIS ARITHMETIC PROJECT

C. AUTHOR INDEX

Authors or organizations responsible for documents are listed alphabetically. The document number of each publication listed is entered after the name of the author or organization. The letter indicates the section of the bibliography and the numeral represents the document number in that section.

- ANDERSON, HANS O. (A1)
- ANDERSON, RICHARD D. (B1)
- ARKANSAS STATE DEPARTMENT
OF EDUCATION (B2)
- ASHER, LUCILE (B3)
- BLASS, GERHARD A. (A2)
- BGENER, CHARLOTTE;
AND OTHERS (A3)
- BRADSHAW, CHARLES KENNETH (A4)
- BURKHART, BRUCE (A5)
- CALIFORNIA STATE DEPARTMENT
OF EDUCATION (B4)
- CALLAHAN, LEROY G. (B5)
- CARUTHERS, BERTRAM, SR. (A6)
- CHENEY, BRUCE DIXON (A7)
- COHEN DONALD;
AND OTHERS (A8)
- COMMISSION ON UNDERGRADUATE
EDUCATION IN THE BIOLOGICAL
SCIENCES (A9, A10, A11)
- CRAIG, GERALD S. (A12)
- CRUNDEN, EDWARD (A13)
- DAVIS, ROBERT B. (B6)
- DICK, ROY DENNIS (A14)
- DRUGER, MARVIN (A15)
- EGGLESTON, J. F.;
KELLY, P. J. (A16)
- FARLEY, GEORGE THOMAS (A17)
- FENG, CHAUN C. (A18, B7)
- FISHER, JOHN J. (B8)
- FISHER, JOHN J.;
AND OTHERS (B9)
- FULBRIGHT, CARLETON, B. (A19, B10)
- GOLDTHWAITE DANIEL THADDEUS (A20)
- HIACK, PAUL S. (A21)
- HIGGINS, JON L.;
BAYER, ROBERT E. (A22)
- HIVELY, WELLS II (B11)
- HOFFART, ERVIN A. (A23)
- HONE, ELIZABETH B.;
AND OTHERS (A24)
- IRBY, BOBBY NEWELL (A25)
- JACOBSON, WILLARD J. (A26)
- JENSEN, VERNER (A27)
- JOHNSON, DONAVAN A. (B12)
- KAMBLY, PAUL E.;
SUTTLE, JOHN E. (A28)
- KANE, ROBERT B. (B13)
- KLEINMAN, GLADYS S. (A29)

KRIEBS, JEAN (A30)

KROCKOVER, GERALD H.;
SCHAEFER, DONALD A. (A31)

LEAKE, JOHN BENJAMIN (A32, B14)

LEFLER, RALPH W.;
AND OTHERS (A33)

LEWIS, JUNE E.;
POTTER, IRENE C. (A34)

LIGHTNER, JERRY P. (A35)

MACDOUGALL, MARY ANN (A36)

MARTIN, BERNARD L. (B15)

MARTINEN, GORDON DAVID (A37)

MASSEY, NORMAN B. (A38)

MATTHEWS, CHARLES C. (A39, A40)

MAYER, VICTOR J. (A41)

MCAULAY, J. D. (A42, B16)

MCBRIDE, RICHARD EARL (A43)

MCLEOD, RICHARD J. (A44)

MENZEL, ERVIN WESLEY (A45)

MERRILL, WILLIAM M.;
AND OTHERS (A46)

MERRILL WILLIAM M.;
SHRUM, JOHN W. (A47)

MILLIKER, DON QUENTIN (A48, B17)

MITIAS, RAGY GEORGY EL-KAMOS (A49)

MOLCHEN, KENNETH JOSEPH (A50)

NEAL, VICTOR T. (A51)

NICODEMUS, ROBERT B. (A52)

ORLICH, DONALD C.;
SEELING, ROBERT H. (A53)

PERKES, VICTOR A. (A54)

PITTSYLVANIA COUNTY SCHOOLS (A55)

POLLACK, HELEN (B18)

RENNER, JOHN W.;
RAGAN, WILLIAM B. (A56)

REYNOLDS, GEORGE WILLIAM (A57)

REYS, ROBERT E. (B19)

ROBINETTE, WALTER ROLAND (A58)

ROSENBLOOM, PAUL C.;
AND OTHERS (B20)

ROTH, BROTHER GREGORY CARL (B21)

RUTLEDGE, JAMES A. (A59)

SANDERS, LEROY JOHN (A50)

SCHAEFER, DONALD A.;
KROCKOVER, GERALD H. (A61)

SCHOOL MATHEMATICS STUDY GROUP (A62)

SHEA, JAMES H. (A63)

SHRUM, JOHN W. (A64)

SOAR, ROBERT S. (A65)

SPROSS, PATRICIA M. (A22)

SUTMAN, FRANK X.;
AND OTHERS (A66)

SWEENEY, MARGARET WILSON (A67)

WEICHIINGER, THEODORE (A73)

TANNENBAUM, HARGLD E.;
AND OTHERS (A68)

WELCH, WAYNE W.;
WALBERG, HERBERT J. (A74)

THIMANN, KENNETH V. (A69)

WILLERDING, MARGARET F. (B23)

TILLERY, BILL (A70)

WILSON, JOHN HAROLD (A75)

TURNER, GEORGE C. (A71)

WITWER, FRANKLIN ALFRED (A76)

TWEETEN, PAUL W.;
YAGER, ROBERT F. (A72)

WRIGHT, KENNETH (A77)

YULO, RALPH JAMES (A78)

D. UNAUTHORED INDEX

ASSOCIATION FOR THE EDUCATION OF TEACHERS OF SCIENCE. COMPILATION OF PAPERS AND REPORTS FROM SESSIONS HELD IN CONJUNCTION WITH THE CONVENTION OF THE NATIONAL SCIENCE TEACHERS ASSOCIATION (NEW YORK CITY, APRIL 1, 2, 1966) (A79)

THE CCSS PROGRAM OF THE NATIONAL SCIENCE FOUNDATION (A80)

EARTH SCIENCE CURRICULUM PROJECT NEWSLETTER, NO. 16 (A81)

GUIDELINES FOR CONTENT OF PRESERVICE PROFESSIONAL EDUCATION FOR SECONDARY SCHOOL SCIENCE TEACHERS (A82)

IN-SERVICE EDUCATION PROGRAM (A83)

THE MOST PRESSING PROBLEM IN PHYSICS (A84)

NSF COOPERATIVE COLLEGE-SCHOOL SCIENCE PROGRAMS (A85)

OCCASION FOR CHANGE (A86)

THE RECRUITMENT AND PREPARATION OF TEACHERS (A87)

SCIENCE EDUCATION INFORMATION REPORT, BIBLIOGRAPHY 2 - TEACHER EDUCATION (A88)

SETS AND SYSTEMS (B24)

UNIVERSITY OF ILLINOIS ARITHMETIC PROJECT - INSTITUTE FOR ELEMENTARY SCHOOL TEACHERS (B25)