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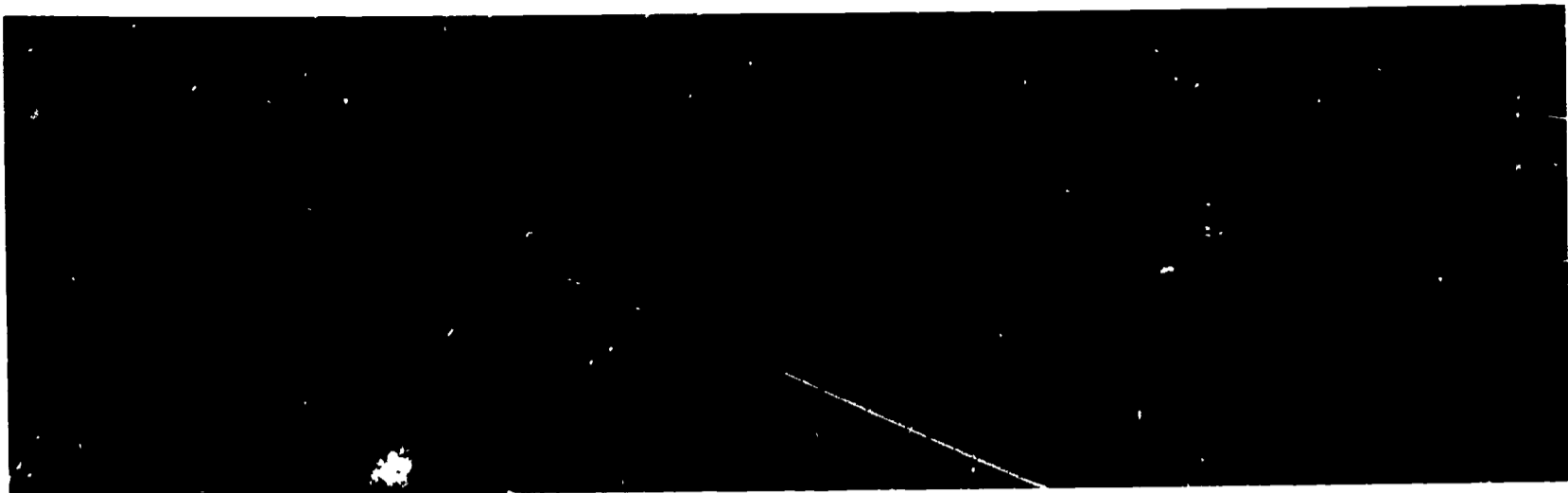
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(8) SCHOOL SCIENCE AND MATHEMATICS
(9) 11 00 64 (10) 4
(11) *BIOLOGY, *CHEMISTRY, *SCIENCE HISTORY, *PHYSICS, *SCIENCE
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 SCIENCE, *TEACHING TECHNIQUES, CLASSIFICATION SYSTEMS, INSTRUCTIONAL
 PROCEDURES, TEACHER RESOURCE MATERIALS
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 CARLSON, JERRY S.
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 *LEARNING THEORIES, *RESEARCH REPORTS, EDUCATION PSYCHOLOGY,
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*EARTH SCIENCE, *GEOLOGY, *LANGUAGES, *LANGUAGE INSTRUCTION,
COLLEGE SCIENCE, EDUCATIONAL PROGRAMS, GRADUATE EDUCATION,
PROGRAM DESCRIPTIONS, UNIVERSITY OF ILLINOIS, FRENCH

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CARRUTH, HAROLD R. AND HICHBORN, ROBERT P.
TRYING TEAM TEACHING IN SCIENCE

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CARVER, THOMAS R.
THE DESIGN AND USE OF A LIGHT PROBE FOR TEACHING SCIENCE TO
BLIND STUDENTS

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BLIND STUDENTS, COLLEGE SCIENCE, SCIENCE ACTIVITIES, LIGHT
PROBES, PHYSICS, VISUALLY HANDICAPPED

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CASTEEL, J. DOYLE AND YAGER, ROBERT E.
SCIENCE AS MIND-AFFECTED AND MIND-EFFECTING INQUIRY

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*INQUIRY, *SCIENCE AND SOCIETY, *SCIENCE COURSES, *SCIENCE
HISTORY, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, COURSE
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STUDY

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CLEGG, F. E.
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FILM

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COULTER, JOHN C.
THE EFFECTIVENESS OF INDUCTIVE LABORATORY, INDUCTIVE DEMONSTRATION,
AND DEDUCTIVE LABORATORY IN BIOLOGY

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REPORTS, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, GRADE 9,
DEMONSTRATION PROCEDURES, LABORATORY PROCEDURES, 1964, 1965,
LORGE-THORNDIKE INTELLIGENCE TEST, WATSON-GLASER CRITICAL
THINKING APPRAISAL

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COULTER, JOHN CHESTER
THE EFFECTIVENESS OF INDUCTIVE LABORATORY, INDUCTIVE DEMONSTRATION,
AND DEDUCTIVE LABORATORY INSTRUCTION IN BIOLOGY

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*ACADEMIC ACHIEVEMENT, *BIOLOGY, *COMPARATIVE ANALYSIS, *GRADE 9,
*DEDUCTIVE METHODS, *INDUCTIVE METHODS, *INSTRUCTION, *SECONDARY
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UTILIZING EXISTING INTERESTS TO DEVELOP OTHERS IN GENERAL
SCIENCE CLASSES

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*GENERAL SCIENCE, *GRADE 8, *INSTRUCTIONAL PROCEDURES, *INSTRUCTION,
*RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, *STUDENT INTERESTS,
INTERESTS, STUDENT CHARACTERISTICS

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CRANE, H. R.
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PROCEDURES, *PHYSICS, *PROGRAMED INSTRUCTION, *PROGRAMED
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CRUMB, GLEN H.
A STUDY OF UNDERSTANDING SCIENCE DEVELOPED IN HIGH SCHOOL
PHYSICS

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*ACADEMIC ACHIEVEMENT, *COMPARATIVE ANALYSIS, *EVALUATION,
*INSTRUCTION, *PHYSICS, *RESEARCH REPORTS, *SECONDARY SCHOOL
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DOCTORAL THESES, IOWA, KANSAS, MISSOURI, NEBRASKA, TEST ON
UNDERSTANDING SCIENCE, OTIS QUICK SCORING TEST OF MENTAL ABILITY,
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CRUMB, GLENN H. AND DOUGLAS, THOMAS
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PENNSYLVANIA, McNEMAR

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ON CURIOSITY AND SCIENCE EDUCATION

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66 12
*CURIOSITY, *CURRICULUM DEVELOPMENT, *EDUCATIONAL OBJECTIVES,
*INSTRUCTION, *LEARNING THEORIES, *MOTIVATION, EDUCATIONAL
PSYCHOLOGY, SCIENCE EDUCATION

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SELECTED TEACHING-LEARNING FACTORS CONTRIBUTING TO ACHIEVEMENT
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*ACADEMIC ACHIEVEMENT, *CHEMISTRY, *INSTRUCTION, *PHYSICS,
*RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, *TEACHER
CHARACTERISTICS, *TEACHING METHODS, *TEACHER EDUCATION, DOCTORAL
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*SCIENCE ACTIVITIES, PHYSICS, WASHINGTON ELEMENTARY SCHOOL
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DAVIS, RUSSELL C.
TEACHER ASSESSMENT OF TEAM TEACHING

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*INSTRUCTION, *SECONDARY SCHOOL SCIENCE, *TEAM TEACHING,
*TEACHING TECHNIQUES, CURRICULUM, EVALUATION

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- 57 160
 *BIOLOGY, *COLLEGE SCIENCE, *HIGHER EDUCATION SCIENCE, *INSTRUCTION,
 *RESEARCH REPORTS, *SCIENTIFIC ATTITUDES, *STUDENT ATTITUDES,
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 SCHOOL SCIENCE
- UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
- 55 247
 *ABLE STUDENTS, *RESEARCH REPORTS, *STUDENT MOTIVATION, *SCIENCE
 CAREERS, *TEACHING METHODS, EVALUATION, SECONDARY SCHOOL SCIENCE,
 STUDENT ATTITUDES
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 DONOR, ALBERT EDWARD, JR.
 AN INVESTIGATION OF THE VALUE OF STUDENT-MADE DRAWINGS IN
 INTRODUCTORY COLLEGE BIOLOGY LABORATORY COURSES
- UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
- 65 111
 *ACADEMIC ACHIEVEMENT, *BIOLOGY, *COLLEGE SCIENCE, *CRITICAL
 THINKING, *INSTRUCTION, *RESEARCH REPORTS, *STUDENT DRAWINGS,
 DOCTORAL THESES, EVALUATION, OBSERVATION SKILLS, SCIENCE
 ACTIVITIES, SECONDARY SCHOOL SCIENCE, NASSAU COMMUNITY COLLEGE,
 WATSON-GLASER CRITICAL THINKING APPRAISAL, NELSON BIOLOGY TEST

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 DURKEE, MARY CATHERINE
 A STUDY OF ACTIVITIES WHICH CAN BE USED IN ELEMENTARY SCIENCE TO
 ENABLE STUDENTS TO ARRIVE AT AN UNDERSTANDING OF GENERALIZATIONS
 RECOMMENDED BY SYLLABUSES OF STATE EDUCATION DEPARTMENTS
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- 58 518
 *COURSE CONTENT, *CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE,
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 AN EXPERIMENTAL STUDY IN THE PROGRAMMING OF SCIENCE INSTRUCTION
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- 63 146
 *CONCEPT DEVELOPMENT, *ELEMENTARY SCHOOL SCIENCE, *PROGRAMED
 INSTRUCTION, *RESEARCH REPORTS, *TEACHING METHODS, ENERGY, GRADE
 4, AUTOINSTRUCTIONAL AIDS, HEAT, LIGHT, SOUND, SCIENCE ACTIVITIES

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DWORKIN, SOLOMON
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SUBJECT OF ATOMIC BONDING, DESIGNED AS A SUBSTITUTE FOR THE LIVE
CLASSROOM LECTURE - A CASE STUDY
UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

58 161
*AUDIOVISUAL AIDS, *ATOMIC BONDING, *COLLEGE SCIENCE, *INSTRUCTION,
*FILMSTRIPS, *RESEARCH REPORTS, ACHIEVEMENT, COMPARATIVE ANALYSIS,
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FAWCETT, H. H.
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SCIENCE, AMERICAN CHEMICAL SOCIETY, COMMITTEE ON CHEMICAL
SAFETY, NATIONAL ACADEMY OF SCIENCES

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*EDUCATIONAL OBJECTIVES, *INSTRUCTIONAL PROCEDURES, *SCIENTIFIC
METHODOLOGY, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, *TEACHING
TECHNIQUES, GRADE 7, GRADE 8, GRADE 9, SCIENTIFIC ENTERPRISE,
PROBLEM SOLVING, SPEECHES

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 FONSWORTH, EMILE CHARLES
 THE USE OF THE REFLECTIVE-THINKING APPROACH IN THE TEACHING OF
 HIGH SCHOOL CHEMISTRY
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- 57 141
 *CHEMISTRY, *CRITICAL THINKING, *INSTRUCTION, *RESEARCH REPORTS,
 *SECONDARY SCHOOL SCIENCE, EVALUATION, PROBLEM SOLVING, SCIENTIFIC
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 PROGRAMS, ADMISSION REQUIREMENTS, PRESERVICE EDUCATION, SECONDARY
 SCHOOL SCIENCE, STUDENT TEACHER SUPERVISION, PENNSYLVANIA STATE
 UNIVERSITY
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 FOX, DENIS L.
 AN INTEGRATIVE TETRAHEDRON OF BASIC DISCIPLINES
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 SCHOOL SCIENCE, PHYSICS, SECONDARY SCHOOL SCIENCE, SCIENCE
 EQUIPMENT, SCRIPPS INSTITUTE OF OCEANOGRAPHY

65. SE 001 837 11 14 67 10 53 17 2 33 000 319
 FREDENBURG, ROBERT LOVE
 INTEREST CHANGE OCCASIONED BY TWO TYPES OF INSTRUCTION IN A
 COLLEGE GENERAL EDUCATION PHYSICAL SCIENCE COURSE
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 65 156
 *COLLEGE SCIENCE, *GENERAL EDUCATION, *INSTRUCTION, *PHYSICAL
 SCIENCES, *RESEARCH REPORTS, *STUDENT INTERESTS, *TEACHING
 TECHNIQUES, COMPARATIVE ANALYSIS, DOCTORAL THESES, CHICO STATE
 COLLEGE, CALIFORNIA
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 FRYBACK, WILLIAM H.
 EVALUATION OF MULTI-LEVEL READING MATERIALS, INTRA-CLASS
 DISCUSSION TECHNIQUES AND STUDENT EXPERIMENTATIONS ON ACHIEVEMENT
 IN FIFTH GRADE ELEMENTARY SCIENCE
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 65 125
 *ACADEMIC ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 5,
 *INSTRUCTIONAL MATERIALS, *INSTRUCTION, *READING LEVEL, *RESEARCH
 REPORTS, *TEACHING PROCEDURES, DOCTORAL THESES, STUDENT
 ACTIVITIES, PORTLAND, OREGON
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 GALE, CALVIN WILLIAM
 AN ANALYSIS OF CERTAIN ABILITY GROUP PLACEMENT DECISIONS RELATIVE
 TO THE TEAM TEACHING OF BIOLOGY
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 *ABILITY GROUPING, *BIOLOGY, *STUDENT GROUPING, *TEAM TEACHING,
 ACADEMIC ACHIEVEMENT, ABLE STUDENTS, COMPARATIVE STUDIES, RESEARCH
 REPORTS, SECONDARY SCHOOL SCIENCE, SLOW LEARNERS, HENMON-NELSON
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 THE EFFECTS OF OVERHEAD PROJECTION ON ACHIEVEMENT IN THE
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- 65 122
 *ACADEMIC ACHIEVEMENT, *BIOLOGY, *COLLEGE SCIENCE, *INSTRUCTION,
 *OVERHEAD PROJECTION, *RESEARCH REPORTS, AUDIOVISUAL AIDS,
 BOTANY, DOCTORAL THESES, EMBRYOLOGY, TEACHING TECHNIQUES,
 UNDERGRADUATE STUDY, UNIVERSITY OF TOLEDO, WATSON-GLASER
 CRITICAL THINKING APPRAISAL (FORM YM)
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 GEHRMAN, JOSEPH LEO
 A STUDY OF THE IMPACT OF AUTHORITATIVE COMMUNICATION OF EXPECTED
 ACHIEVEMENT UPON ACTUAL ACHIEVEMENT IN ELEMENTARY SCHOOL SCIENCE
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- 65 121
 *ACADEMIC ACHIEVEMENT, *EDUCATIONAL COUNSELING, *ELEMENTARY
 SCHOOL SCIENCE, *INSTRUCTION, *RESEARCH REPORTS, *STUDENT
 INTERVIEWS, STUDENT EVALUATION, SELF-EVALUATION, *TEST
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 PROBLEM IN AN AREA OF COLLEGE CHEMISTRY
 UNIVERSITY MICROFILM, ANN ARBOR, MICHIGAN
 62 119
 *CHEMISTRY, *COLLEGE SCIENCE, *COMPARATIVE STUDIES, *CONVENTIONAL
 INSTRUCTION, *INSTRUCTION, *PROGRAMED INSTRUCTION, ACADEMIC
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AN EXPERIMENTAL EVALUATION OF BSCS AND CONVENTIONAL BIOLOGY BY
COMPARING THEIR EFFECT ON CRITICAL-THINKING ABILITY

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*ACADEMIC ACHIEVEMENT, *BIOLOGY, *CRITICAL THINKING, *RESEARCH
REPORTS, *INSTRUCTION, *SECONDARY SCHOOL SCIENCE, CONVENTIONAL
INSTRUCTION, DOCTORAL THESES, WATSON-GLASER CRITICAL THINKING
APPRAISAL, OTIS QUICK SCORING MENTAL ABILITY TEST, BIOLOGICAL
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GILLELAND, FRANK W.
. . . AND THE TRUTH SHALL MAKE THEM FREE

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GLASER, ROBERT
THE DESIGN OF INSTRUCTION

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*EDUCATIONAL OBJECTIVES, *EVALUATION, *LEARNING THEORY,
*TEACHING METHODS, CONCEPT FORMATION, INSTRUCTION, MOTIVATION,
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

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 METHODS OF THE JUNIOR HIGH SCHOOL SCIENCE PROGRAM IN SELECTED
 TEXAS SCHOOLS
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- 65 233
 *ACADEMIC ACHIEVEMENT, *CURRICULUM, *COMPARATIVE ANALYSIS,
 *GENERAL SCIENCE, *RESEARCH REPORTS, *SEQUENTIAL PROGRAMS,
 *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS, BIOLOGY, CURRICULUM
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 PROBLEM SOLVING IN TEACHING WITH EMPHASIS ON INSTRUCTION IN
 SCIENCE PROGRAMS FOR THE EARLY ADOLESCENT
- UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
- 65 237
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 *BIOLOGY, *COLLEGE SCIENCE, *CONCEPT FORMATION, *EVALUATION
 METHODS, *LEARNING PROCESSES, RESEARCH REPORTS, STUDENT
 CHARACTERISTICS, 1963, PURDUE UNIVERSITY,

126. SE 000 024 10 26 67 10 92 17 2 51 000 279
 NASCA, DONALD
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 PROBLEM SOLVING BEHAVIOR
 UNITED STATES DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE,
 OFFICE OF EDUCATION, WASHINGTON D. C.

12 00 65 64
 *GRADE 8, *PROGRAMED MATERIALS, *PROBLEM SOLVING, *SECONDARY SCHOOL
 SCIENCE, *SCIENCE ACTIVITIES, NONVERBAL PROBLEM SOLVING, VERBAL
 PROBLEM SOLVING, *RESEARCH REPORT, *UNUSUAL DETAILS (TEST),
 *MECHANICAL REASONING (TEST), UNITED STATES OFFICE OF EDUCATION,
 STATE UNIVERSITY OF NEW YORK AT BROCKPORT, NEW YORK, SCIENCE
 VOCABULARY (TEST), SCIENCE SPATIAL ORIENTATION (TEST), SEEING
 SCIENCE DEFICIENCIES (TEST), ETS (EDUCATIONAL TESTING SERVICE,
 PRINCETON, NEW JERSEY), VOCABULARY (TEST), CARD ROTATION (TEST),
 CUBE COMPARISON (TEST), HIDDEN PATTERNS (TEST), HIDDEN FIGURES
 (TEST), DIVISION (TEST), MULTIPLICATION AND SUBTRACTION (TEST),
 SS (SHERIDAN SUPPLY COMPANY), SEEING PROBLEMS (TEST), G
 (GUILFORD, HIGH APTITUDE PSYCHOLOGY LABORATORY, UNIVERSITY OF
 CALIFORNIA APPARATUS TEST), NELSON SILENT READING TEST (VOCABULARY),
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127. SE 001 029 09 12 67 10 91 17 1 00 000 006
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PROGRAMMED MATERIALS ON SPECIFIC INTELLECTUAL FACTORS OF SCIENCE
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12 00 66 21
*ACADEMIC ACHIEVEMENT, *ELEMENTARY SCHOOL SCIENCE, *GRADE 6,
*INSTRUCTION, *PROBLEM SOLVING, *PROGRAMED INSTRUCTION, *STUDENT
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ACTIVITIES, REFERENCE TESTS FOR COGNITIVE FACTORS, VOCABULARY
TEST (ETS), CARD ROTATION TEST (ETS), CUBE COMPARISON TEST (ETS),
HIDDEN PATTERNS TEST (ETS), HIDDEN FIGURES (ETS), MULTIPLICATION
AND SUBTRACTION (ETS), MECHANICAL REASONING TEST, NELSON SILENT
READING TEST, UNUSUAL DETAILS, NONVERBAL PROBLEM SOLVING TEST,
UNITED STATES OFFICE OF EDUCATION, TITLE VII

128. SE 001 584 11 01 67 06 81 15 2 32 000 200
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SOURCEBOOKS, PHYSICAL SCIENCES

129. SE 001 118 07 28 67 10 86 15 1 33 000 200
NORTH CAROLINA STATE DEPARTMENT OF EDUCATION
FIRE SAFETY

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08 01 59 16
*ELEMENTARY SCHOOL SCIENCE, *FIRE HAZARDS, *STATE LEGISLATION,
*SAFETY, *SECONDARY SCHOOL SCIENCE, CHEMISTRY, LEGISLATIVE ACTS,
NATURAL SCIENCES, NORTH CAROLINA

130. SE 001 974 09 12 67 10 13 17 2 22 000 319
 OLSON, KENNETH VICTOR
 AN EXPERIMENTAL EVALUATION OF A STUDENT-CENTERED METHOD AND A
 TEACHER-CENTERED METHOD OF BIOLOGICAL SCIENCE INSTRUCTION FOR
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- 57 325
 *ACADEMIC ACHIEVEMENT, *BIOLOGY, *COLLEGE SCIENCE, *TEACHING
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 INSTRUCTION, 1955, 1956, NORTHERN STATE TEACHERS COLLEGE,
 COOPERATIVE BIOLOGY TEST, ABILITY TO THINK SCIENTIFICALLY TEST
131. SE 001 216 08 28 67 19 12 17 2 22 000 319
 OLSTAD, ROGER GALE
 SECONDARY SCHOOL BIOLOGY ACHIEVEMENT RELATED TO CLASS PERIOD
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- 63 240
 *BIOLOGY, *COURSE ORGANIZATION, *RESEARCH REPORTS, *SECONDARY
 SCHOOL SCIENCE, *ACADEMIC ACHIEVEMENT, *TIME ALLOCATION,
 *TEACHING METHODS, PROBLEM SOLVING
132. SE 001 048 07 28 67 10 92 17 1 00 000 006
 ORLICH, DONALD C.
 HIGHLIGHTS OF THE METHODS USED BY MONTANA SENIOR HIGH SCHOOL
 SCIENCE TEACHERS - PRIOR TO THE IMPACT OF FEDERAL LEGISLATION
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 *TEACHER QUALIFICATIONS, AUDIOVISUAL AIDS, DEMONSTRATIONS (SCIENCE),
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 PARAKH, JAL S.
 A STUDY OF TEACHER-PUPIL INTERACTION IN HIGH SCHOOL BIOLOGY
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- 65 198
 *BIOLOGY, *INTERACTION ANALYSIS, *STUDENT CHARACTERISTICS,
 *RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, COGNITIVE DEVELOPMENT,
 DOCTORAL DISSERTATIONS, CLASSROOM OBSERVATIONS, EVALUATION,
 LEARNING PROCESSES, OBSERVATION TECHNIQUES, 1965, NEW YORK,
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134. SE 001 537 07 12 67 10 32 17 1 00 000 004
 PARQUE, RICHARD A.
 AN EXPERIMENTAL STUDY TO INVESTIGATE THE MATHEMATICAL NEEDS OF
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- 05 00 66 2
 *APPLIED MATHEMATICS, *PHYSICS, *RESEARCH REPORTS, *SECONDARY
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 MATHEMATICS, YUCAIPA HIGH SCHOOL (CALIFORNIA)
135. SE 000 822 07 27 67 10 92 29 1 00 000 008
 PELLA, MILTON O.
 SECONDARY SCHOOL SCIENCE TEACHER EDUCATION AT THE UNIVERSITY OF
 WISCONSIN
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 *GRADUATION REQUIREMENTS, *TEACHER EDUCATION PROGRAMS, ADMISSION
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136. SE 000 899 06 23 67 10 83 17 1 00 000 006
POSTL, ANTON
THE VALUE OF LABORATORY WORK IN THE NATURAL SCIENCES FOR
STUDENTS IN PROGRAMS OF GENERAL EDUCATION

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*EVALUATION, *GENERAL EDUCATION, *NATURAL SCIENCES, *TEACHING
METHODS, LABORATORY COURSES, 1953, 1954, A TEST OF GENERAL
PROFICIENCY IN THE FIELD OF NATURAL SCIENCES, COOPERATIVE
GENERAL ACHIEVEMENT TESTS (ETS), A TEST OF SCIENCE REASONING
AND UNDERSTANDING PHYSICAL SCIENCES

137. SE 001 745 08 23 67 10 43 20 1 00 000 197
PROCTOR, PAUL DEAN
FIELD GEOLOGY FOR THE ADVANCED STUDENT

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*ADVANCED STUDENTS, *COLLEGE SCIENCE, *EARTH SCIENCE, *FIELD
GEOLOGY, *INSTRUCTIONAL PROCEDURES, PAPERS

138. SE 001 676 08 18 67 10 43 30 1 00 000 197
RAHM, DAVID A.
GRAPHIC INTEGRATION OF RELATIVE AGE, ABSOLUTE AGE, AND
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*INSTRUCTIONAL PROCEDURES, GRAPHS, GEOLOGICAL TIME, HISTORICAL
GEOLOGY, SCIENCE ACTIVITIES, TEACHER RESOURCE MATERIALS

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 RAINEY, ROBERT G.
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 *ACADEMIC ACHIEVEMENT, *CHEMISTRY, *INSTRUCTIONAL PROCEDURES,
 *RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, *TEACHING METHODS,
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 LEARNING ACTIVITIES, AMERICAN CHEMICAL SOCIETY-NATIONAL SCIENCE
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 CHEMISTRY TEST, SOUTH HIGH SCHOOL (MINNEAPOLIS, MINNESOTA)
140. SE 001 227 07 25 67 10 22 17 2 22 000 319
 RAINEY, ROBERT GLENN
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 *ACADEMIC ACHIEVEMENT, TEACHING METHODS
141. SE 001 472 12 11 67 10 81 29 1 00 000 004
 RAMSEY, IRVIN L. AND WIANDT, SANDRA LEE
 INDIVIDUALIZING ELEMENTARY SCHOOL SCIENCE
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 *ELEMENTARY SCHOOL SCIENCE, *INSTRUCTION, *INDIVIDUAL INSTRUCTION,
 EDUCATIONAL PROGRAMS, PROGRAM DESCRIPTION, SCIENCE ACTIVITIES,
 COLUMBUS, OHIO
142. SE 001 511 10 10 67 06 22 38 1 00 000 004
 RAWLINS, GEORGE M., JR.
 SAFETY IN HIGH SCHOOL CHEMISTRY
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 *CHEMISTRY, *LABORATORY SAFETY, *LABORATORY MANAGEMENT, *SAFETY,
 *SECONDARY SCHOOL SCIENCE, SCIENCE EQUIPMENT, SCIENCE MATERIALS

143. SE 000 012 09 06 67 10 52 17 2 09 000 229
REDFIELD, DAVID D. AND ATWOOD, RONALD K.
AN INVESTIGATION OF AN EXPERIMENT MODEL IN THE PHYSICAL SCIENCES
FOR THE JUNIOR HIGH STUDENT

FLORIDA STATE UNIVERSITY, TALLAHASSEE

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*PROBLEM SOLVING, *PROGRAMED INSTRUCTION, *SECONDARY SCHOOL SCIENCE,
COGNITIVE DEVELOPMENT, GRADE 7, GRADE 8, GRADE 9, INSTRUCTION,
LEARNING, PHYSICAL SCIENCES, RESEARCH REPORTS, STUDENT RESEARCH

144. SE 000 864 09 07 67 10 52 17 2 09 000 229
REDFIELD, DAVID D. AND ATWOOD, RONALD K.
AN INVESTIGATION OF AN EXPERIMENT MODEL IN THE PHYSICAL SCIENCES
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FLORIDA STATE UNIVERSITY, TALLAHASSEE

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*BEHAVIORAL OBJECTIVES, *INSTRUCTION, *SCIENCE ACTIVITIES, *PROBLEM
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METHODOLOGY, SCHOOL MATHEMATICS STUDY GROUP, AMERICAN ASSOCIATION
FOR THE ADVANCEMENT OF SCIENCE-SCIENCE, A PROCESS APPROACH,
INTRODUCTORY PHYSICAL SCIENCE, MINNEMAST, NATIONAL SCIENCE
FOUNDATION, FLORIDA STATE UNIVERSITY HIGH SCHOOL, PINELLAS COUNTY
(FLORIDA), HILLSBOROUGH COUNTY (FLORIDA), METROPOLITAN
ACHIEVEMENT TEST SCORES

145. SE 001 711 08 23 67 10 25 30 1 32 000 339
REYNOLDS, G. WILLIAM AND HOLMER, M. KATHLEEN
AN ELECTROMETIC TITRATION DEMONSTRATION FOR THE OVERHEAD
PROJECTOR

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*CHEMISTRY, *DEMONSTRATIONS (SCIENCE), *OVERHEAD PROJECTORS,
*SECONDARY SCHOOL SCIENCE, *TITRATION, COLLEGE SCIENCE,
SCIENCE EQUIPMENT

146. SE 001 050 07 28 67 10 53 17 1 00 000 006
RICKERT, RUSSELL K.
DEVELOPING CRITICAL THINKING

SCIENCE EDUCATION

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*COLLEGE SCIENCE, *CRITICAL THINKING, *EDUCATIONAL OBJECTIVES,
*INSTRUCTION, *PHYSICAL SCIENCES, *RESEARCH REPORTS, *ACADEMIC
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EDUCATION OF THE CULTURALLY DEPRIVED CHILD

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*DISADVANTAGED YOUTH, *ELEMENTARY SCHOOL STUDENTS, *SECONDARY
SCHOOL STUDENTS, *TEACHING TECHNIQUES, SPEECHES

148. SE 001 465 07 11 67 10 55 20 1 00 000 006
RONNEBERG, CONRAD E.
LABORATORY PROJECTS IN PHYSICAL SCIENCE FOR GENERAL STUDENTS

SCIENCE EDUCATION

03 00 67 6
*COLLEGE SCIENCE, *GENERAL EDUCATION, *INSTRUCTIONAL PROCEDURES,
*LABORATORY EXPERIMENTS, *LABORATORY PROJECTS, *PHYSICAL SCIENCES,
STUDENT PROJECTS

149. SE 001 448 10 10 67 09 86 20 1 00 000 008
ST. JOHN, CLINTON
CAN SCIENCE EDUCATION BE SCIENTIFIC? NOTES TOWARD A VIABLE THEORY
OF SCIENCE TEACHING

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*EDUCATIONAL OBJECTIVES, *INSTRUCTIONAL PROCEDURES, *LEARNING,
PAPERS, *SCIENCE EDUCATION, *THEORY FORMATION, ASSOCIATION FOR
THE EDUCATION OF TEACHERS IN SCIENCE

150. SE 001 381 11 13 67 10 42 20 1 00 000 197
SAMPLES, ROBERT E.
DEATH OF AN INVESTIGATION

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*EARTH SCIENCE, *INSTRUCTION, *SCIENCE ACTIVITIES, *SECONDARY
SCHOOL SCIENCE, *STUDENT INVESTIGATIONS, PAPERS, EARTH SCIENCE
CURRICULUM PROJECT

151. SE 000 638 08 04 67 10 91 17 3 13 000 230
SANDS, THEODORE AND OTHERS
CONCEPT DEVELOPMENT MATERIALS FOR GIFTED ELEMENTARY PUPILS

ILLINOIS STATE UNIVERSITY

66 43
*CONCEPT FORMATION, *ELEMENTARY SCHOOL SCIENCE, *ABLE STUDENTS,
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SAYLES, J. HENRY
USING PROGRAMED INSTRUCTION TO TEACH HIGH SCHOOL CHEMISTRY

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*CHEMISTRY, *INSTRUCTION, *INDIVIDUAL INSTRUCTION, *PROGRAMED
INSTRUCTION, *RESEARCH REPORTS, *SECONDARY SCHOOL SCIENCE, 1966

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SCHEFLER, WILLIAM C.
A COMPARISON BETWEEN INDUCTIVE AND ILLUSTRATIVE LABORATORIES IN
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CENTERED TEACHING, *RESEARCH REPORTS, *TEACHING METHODS, TEACHER
EDUCATION, KUDER PREFERENCE TEST FORM C, TEST ON UNDERSTANDING
SCIENCE

154. SE 001 306 11 16 67 10 91 17 2 22 000 319
 SCHILLER, LEROY
 A STUDY OF THE EFFECT OF INDIVIDUALIZED ACTIVITIES ON UNDERSTANDING
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 *ELEMENTARY SCHOOL SCIENCE, *GRADE 6, *INDIVIDUAL ACTIVITIES,
 *INSTRUCTIONAL MATERIALS, *INSTRUCTION, *RESEARCH REPORTS,
 *STUDENT ACTIVITIES, DOCTORAL THESES, EARTH SCIENCE, FEMALES,
 MALES, PHYSICAL SCIENCE, SCIENCE ACTIVITIES, 1964, GENERAL
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 SCHUNER, SILAS W.
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 *INTERACTION ANALYSIS, *SCIENCE TEACHERS, *SECONDARY SCHOOL SCIENCE,
 *TEACHING TECHNIQUES, BIOLOGY, EARTH SCIENCE, GENERAL SCIENCE,
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156. SE 001 310 11 16 67 10 23 17 2 22 000 319
 SCOTT, DAN DRYDEN
 THE USE OF ANALOGIES IN INTRODUCTORY COLLEGE CHEMISTRY TEXTBOOKS,
 1930-1960
 UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN
 63 113
 *ANALOGIES, *CHEMISTRY, *COLLEGE SCIENCE, *RESEARCH REPORTS,
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 THESES, TEXTBOOK CONTENT, 1963

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SCREVEN, RUTH WEHNER
A SIMPLE RULE OF V'S OF OUTCROP PATTERNS

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*EARTH SCIENCE, *GEOLOGY, *INSTRUCTIONAL PROCEDURES, *TEACHER
RESOURCE MATERIALS, COLLEGE SCIENCE

158. SE 001 418 10 18 67 10 95 38 1 00 000 009
SEARS, FRANCIS W.
WEIGHT AND WEIGHTLESSNESS

THE PHYSICS TEACHER

04 00 63 3
*FORCES (PHYSICAL), *INSTRUCTIONAL PROCEDURE, *LABORATORY
TECHNIQUES, *MEASUREMENT, *PHYSICS, *WEIGHT, COLLEGE SCIENCE,
EARTH SCIENCE, GRAVITATIONAL FORCE, SECONDARY SCHOOL SCIENCE,
WEIGHTLESSNESS

159. SE 000 816 07 11 67 10 92 29 1 00 000 008
SELBERG, EDITH M. AND VESSEL, M. F.
SECONDARY SCHOOL SCIENCE TEACHER EDUCATION AT SAN JOSE STATE
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06 00 65 3
*CURRICULUM PLANNING, *GRADUATION REQUIREMENTS, *TEACHER EDUCATION
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EDUCATION, SECONDARY SCHOOL SCIENCE, SAN JOSE STATE COLLEGE

160. SE 000 952 07 26 67 10 12 38 1 00 000 001
SHOEMAKER, FORREST H.
A COMPARATIVE STUDY IN FIELD BIOLOGY

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*BIOLOGY, *ECOLOGY, *FIELD TECHNIQUES, *SECONDARY SCHOOL SCIENCE,
*TEACHING TECHNIQUES, FIELD BIOLOGY

161. SE 001 247 11 01 67 10 13 17 2 22 000 319
 SILVERSTEIN, ALVIN
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 *MODELS (DEMONSTRATION), *RESEARCH REPORTS, *SCIENCE ACTIVITIES,
 *TEACHING PROCEDURES, COMMUNITY COLLEGES, SCIENCE EQUIPMENT,
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 SLATER, SCHUYLER G.
 THE CLASSIFICATION OF SELECTED PRACTICES OF COLLEGE SCIENCE
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- 65 253
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 *TEACHING METHODS, *TEACHING TECHNIQUES, 1965, BIOLOGY, CHEMISTRY,
 DOCTORAL THESES, EVALUATION
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 SMITH, DOYNE M. AND COOPER, BERNICE
 A STUDY OF THE USE OF VARIOUS TECHNIQUES IN TEACHING SCIENCE IN THE
 ELEMENTARY SCHOOL
 SCHOOL SCIENCE AND MATHEMATICS
- 06 00 67 4
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 *TEACHER CHARACTERISTICS, RESEARCH REPORTS

164. SE 001 547 12 11 67 10 32 17 3 22 000 319
 SNIDER, RAY MERRILL
 A PROJECT TO STUDY THE NATURE OF PHYSICS TEACHING USING THE
 FLANDERS METHOD OF INTERACTION ANALYSIS
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 SCIENCE ACTIVITIES, TEACHER INFLUENCE, TEACHER CHARACTERISTICS,
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 SORENSON, LAVAR L.
 CHANGE IN CRITICAL THINKING BETWEEN STUDENTS IN
 LABORATORY-CENTERED AND LECTURE-DEMONSTRATION-CENTERED PATTERNS
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- 66 141
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 *TEACHING TECHNIQUES, COMPARATIVE ANALYSIS, DISSERTATION, RESEARCH
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 CRITICAL THINKING APPRAISAL (FORM YM), CORNELL CRITICAL THINKING
 TEST (FORM X), ROKEACH DOGMATISM SCALE (FORM E), TEST ON
 UNDERSTANDING SCIENCE (FORM W), SALT LAKE CITY SCHOOL DISTRICT
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 STONE, RUTH MURIEL
 A COMPARISON OF THE PATTERNS OF CRITERIA WHICH ELEMENTARY AND
 SECONDARY SCHOOL TEACHERS USE IN JUDGING THE RELATIVE EFFECTIVENESS
 OF SELECTED LEARNING EXPERIENCES IN ELEMENTARY SCIENCE
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 *TEACHING METHODS, EVALUATION, SCIENCE ACTIVITIES

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SUMNER, THOMAS AND OTHERS
THE USE OF FILMS AS REPLACEMENTS FOR GENERAL CHEMISTRY
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AUTHOR, UNIVERSITY OF AKRON, OHIO

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*ACADEMIC ACHIEVEMENT, *ACHIEVEMENT, *AUDIOVISUAL AIDS, *COLLEGE
SCIENCE, *CHEMISTRY, *FILMS, *INSTRUCTION, *RESEARCH REPORTS,
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A MODIFIED TEAM APPROACH IN SEVENTH GRADE SCIENCE

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*GENERAL SCIENCE, *GRADE 7, *SECONDARY SCHOOL SCIENCE, *TEAM
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*RESEARCH REPORTS

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TATING, MARCELA TIONKO
PRIMING CREATIVE THINKING IN ELEMENTARY SCHOOL SCIENCE

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

65 115
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THESES, 1965

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THREET, RICHARD L.
TRIGONOMETRIC SCALES TO SIMPLIFY DESCRIPTIVE GEOMETRY IN
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TOOHEY, JACK VINCENT
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*KNOWLEDGE RETENTION, *SECONDARY SCHOOL SCIENCE, *ACADEMIC
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WARD, JOHN NOAH
GROUP STUDY VERSUS LECTURE-DEMONSTRATION METHOD IN PHYSICAL
SCIENCE INSTRUCTION FOR GENERAL EDUCATION COLLEGE STUDENTS

UNIVERSITY MICROFILMS, ANN ARBOR, MICHIGAN

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*ACADEMIC ACHIEVEMENT, *COLLEGE SCIENCE, *INSTRUCTION, *PHYSICAL
SCIENCE, *TEACHING METHODS, OBJECTIVES, GENERAL EDUCATION, LECTURE
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WASHTON, NATHAN S.
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METHODS, PAPERS, INTERNATIONAL ASSOCIATION OF UNIVERSITY
PROFESSORS AND LECTURERS (VIENNA, AUSTRIA)

174. SE 001 933 11 09 67 10 51 17 2 22 000 319
WEAVER, ALLEN DALE
A DETERMINATION OF CRITERIA FOR SELECTION OF LABORATORY
EXPERIENCES SUITABLE FOR AN INTEGRATED COURSE IN PHYSICAL
SCIENCE DESIGNED FOR THE EDUCATION OF ELEMENTARY SCHOOL TEACHERS
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54 387
*CURRICULUM, *COLLEGE SCIENCE, *EVALUATION, *SCIENCE ACTIVITIES,
*PHYSICAL SCIENCES, *TEACHER EDUCATION, CURRICULUM PLANNING,
ELEMENTARY SCHOOL SCIENCE, EDUCATIONAL OBJECTIVES, INTEGRATED
SCIENCES, 1954

175. SE 000 381 08 21 67 10 95 20 1 00 000 007
WEAVER, ELBERT C.
DEMONSTRATION IS TEACHING

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*COLLEGE SCIENCE, *DEMONSTRATIONS (SCIENCE), *SECONDARY SCHOOL
SCIENCE, *TEACHING TECHNIQUES, BIOLOGY, CHEMISTRY, PHYSICS,
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176. SE 000 177 07 05 67 10 95 30 1 00 000 007
WHITE, HARVEY E. AND OTHERS
ARE YOU GETTING ENOUGH CALCIUM?

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*DISPLAYS, *HEALTH EDUCATION, *INSTRUCTION, INDIVIDUALIZED
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UNIVERSITY OF CALIFORNIA, BERKELEY, BERKELEY, CALIFORNIA

177. SE 001 975 09 12 67 10 12 17 2 22 000 319
WHITE, ROBERT WILLIAM
THE RELATIVE EFFECTIVENESS OF A TEAM TEACHING METHOD IN HIGH
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*ACHIEVEMENT, *BIOLOGY, *INSTRUCTION, *INSTRUCTIONAL PROCEDURES,
*SECONDARY SCHOOL SCIENCE, *STUDENT ATTITUDES, *TEAM TEACHING,
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178. SE 000 866 07 20 67 10 22 17 1 05 000 185
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THE TEACHING OF HIGH SCHOOL CHEMISTRY

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*CHEMISTRY, *CLASS SIZE, *SECONDARY SCHOOL SCIENCE, *ACADEMIC
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*ACADEMIC ACHIEVEMENT, *CHEMISTRY, *INSTRUCTIONAL PROCEDURES,
*INDEPENDENT STUDY, *RESEARCH REPORTS, *SCHOOL ORGANIZATION,
*SECONDARY SCHOOL SCIENCE, ADMINISTRATION, CLASS SIZE,
SCHEDULING

180. SE 000 014 07 18 67 10 22 17 3 32 000 285
WINTER, STEPHEN S. AND OTHERS
LARGE GROUP-SMALL GROUP INSTRUCTION IN REGENTS CHEMISTRY

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*CHEMISTRY, *SECONDARY SCHOOL SCIENCE, *SMALL GROUP INSTRUCTION,
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CRITICAL THINKING (FORM S) UNIT TEST ON THE PERIODIC TABLE AND
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PRETEST, INSTRUCTIONAL PROCESS REPORT FORM

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WITTERS, WELDON L.
EXPERIMENTAL UNIT IN RADIATION BIOLOGY

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*BIOLOGY, *COURSE CONTENT, *RADIATION BIOLOGY, *SCIENCE
ACTIVITIES, *SECONDARY SCHOOL SCIENCE, ADVANCED BIOLOGY

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WONG, HARRY K.
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*BIOLOGY, *SECONDARY SCHOOL SCIENCE, COLLEGE SCIENCE, INQUIRY
TRAINING, LEARNING PROCESSES, LABORATORY EQUIPMENT, MOTIVATION,
PROBLEM SOLVING, STUDENT RESEARCH MENLO-ATHERTON HIGH SCHOOL

183. SE 000 045 06 27 67 10 12 17 3 00 000 008
YAGER, ROBERT E. AND WICK, JOHN W.
THREE EMPHASES IN TEACHING BIOLOGY - A STATISTICAL COMPARISON
OF RESULTS

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*BIOLOGY, *CRITICAL THINKING, *COGNITIVE DEVELOPMENT, *SECONDARY
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*ACADEMIC ACHIEVEMENT, *COLLEGE SCIENCE, *COMPARATIVE ANALYSIS,
*INSTRUCTION, *PHYSICAL SCIENCES, *RESEARCH REPORTS, *TEAM
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