
New Mexico State Univ., University Park. ERIC Clearinghouse on Rural Education and Small Schools.

Office of Education (DHEW), Washington, D.C.

No 78

54p.; Parts may not reproduce clearly due to print quality

National Educational Laboratory Publishers, Inc., 813 Airport Boulevard, Austin, Texas 78702 (EC-069, $3.75)

MF-$0.83 HC-$3.50 Plus Postage.

*Bibliographies; Camping; Ecology; Elementary Secondary Education; Environmental Education; *Experiential Learning; Handicapped; Higher Education; Natural Resources; *Outdoor Education; Physical Education; Program Descriptions; Research Needs; *Resource Guides; Sensory Experience; *Subject Index Terms; Teaching Guides

Adventure Education; *Outward Bound

A supplement to eight previous publications, this bibliography includes recent resource materials, research findings, and developments in outdoor education. Citations are derived from the June 1977-June 1978 issues of Resources in Education (RIE) and Current Index to Journals in Education (CIJE). The bibliography is divided into two major sections covering RIE and CIJE citations. Each section is preceded by a subject index. Among the subjects listed in the RIE subject-index are the following: adventure education, ecology, environmental education, experiential learning, handicapped, orienteering, Outward Bound, program development, program evaluation, program planning, recreation, residential programs, sensory experience, and site development. Document types found in this bibliography include the following: bibliographies, directories, guides, program descriptions, and resource and teaching guides. Among the subjects listed in the CIJE subject index are the following: botany, camping, death, ecology, environmental education, experiential learning, field trips, handicapped, higher education, land use, marine biology, natural resources, physical education, recreational activities, research needs, science activities, teacher education, and urban studies. There are 49 citations listed in the RIE section and 75 citations listed in the CIJE section. Ordering information and a list of the 16 ERIC clearinghouses are included. (JC)
The material in this publication was prepared pursuant to a contract with the National Institute of Education, U. S. Department of Health, Education, and Welfare. Contractors undertaking such projects under government sponsorship are encouraged to express freely their judgment in professional and technical matters. Points of view or opinions, however, do not necessarily represent the official view or opinions of the National Institute of Education.

The booklet may be duplicated in whole or in part, whenever such duplication is in the interest of bettering education.

November 1978
THE ERIC SYSTEM

The Educational Resources Information Center (ERIC) is a decentralized nationwide network, sponsored by the National Institute of Education (NIE), designed to collect, to organize, to screen, to disseminate and/or otherwise to make available educational resource and/or research related material to teachers, administrators, researchers, students, and other interested persons.

To achieve this purpose, ERIC processes documents for announcement in Resources in Education (RIE). This is a monthly abstract journal which announces all documents that are acquired by ERIC and that pass its selection criteria. ERIC attempts comprehensive coverage of recently completed significant documents dealing with education.

Documents announced in RIE (except for some copyrighted materials) can be purchased in microfiche or paper copy from the ERIC Document Reproduction Service (EDRS). EDRS sends complete sets of ERIC documents on microfiche to over 650 standing order customers in this country and abroad. A list containing the locations of these standing orders may be obtained from the ERIC Processing and Reference Facility, 4833 Rugby Avenue, Suite 303, Bethesda, MD 20014.

In addition to providing access to the report literature, ERIC compiles the Current Index to Journals in Education (CIJE), a monthly journal which announces articles appearing in over 700 educationally related periodicals.

Although RIE and CIJE provide manual access to materials, the ERIC data base is also accessible at many locations through computer searches of ERIC's magnetic tapes. The major vendors of on-line retrieval services all provide access to the ERIC data base, which is one of the most popular and lowest cost data bases presently in operation.

ERIC accomplishes its objectives primarily through its three subcontractors and its sixteen Clearinghouses, each of which specializes in different, multi-discipline, educational areas. The Clearinghouse on Rural Education and Small Schools (CRESS) is responsible for processing materials related to rural education, small schools, the American Indian, the Mexican American, the migrant, and outdoor education. For information concerning other individual Clearinghouses and their scopes, consult the list at the back of this publication.
<table>
<thead>
<tr>
<th>Organization of the Bibliography</th>
<th>v</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section I</td>
<td>Resources in Education Index</td>
</tr>
<tr>
<td>Key to Citations</td>
<td>2</td>
</tr>
<tr>
<td>Citations from Resources in Education</td>
<td>3</td>
</tr>
<tr>
<td>Section II</td>
<td>Current Index to Journals in Education</td>
</tr>
<tr>
<td>Key to Citations</td>
<td>21</td>
</tr>
<tr>
<td>Citations from Index to Journals in Education</td>
<td>22</td>
</tr>
<tr>
<td>Section III</td>
<td>Previous Bibliographies</td>
</tr>
<tr>
<td>Section IV</td>
<td>List Of ERIC Clearinghouses</td>
</tr>
<tr>
<td>Section V</td>
<td>Order Blank</td>
</tr>
</tbody>
</table>
Organization of the Bibliography

This bibliography is the ninth such outdoor education bibliography covering the latest research findings and/or educational developments drawn from the RIE and CIJE issues dating from June 1977 through June 1978. To compile this bibliography, the terms Outdoor Education, Outdoor Drama, and Outdoor Theatres were used to search the ERIC holdings.

There are two major divisions in the bibliography: the RIE and CIJE sections. Heading each division is a subject index which will aid the reader in locating the material he wants by subject classification.

Each citation begins with an ERIC accession number. RIE entries are given an ED number; CIJE entries have an EJ number. The citations are arranged by these numbers, starting with the lowest number first.

On page 2 the reader may find a Sample RIE Citation and the Key to the Citations. This will explain the code being used. Page 21 carries the Sample CIJE Citation and its Key.

Full reproductions of each RIE document (if available) can be ordered from EDRS through the order blank found in this bibliography. This also includes instructions for computing the price. If an RIE citation says NOT AVAILABLE FROM EDRS, an alternate source is given; if the citation says HC NOT AVAILABLE FROM EDRS, the citation is available in microfiche only.

CIJE articles are not available from EDRS; to find it in its entirety or obtain a reprint, the reader must go to the appropriate journal in his local library. Many journals have reprints available through University Microfilms. See a current issue of CIJE for an up-to-date list of participating journals and for ordering information.

Document Contributions

Persons desiring to make document contributions may do so by sending one copy or two, if available, to:

ERIC/CRESS Acquisitions
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adventure Education</td>
<td>3</td>
</tr>
<tr>
<td>Bibliographies</td>
<td>4</td>
</tr>
<tr>
<td>Directions</td>
<td>5</td>
</tr>
<tr>
<td>Ecology</td>
<td>5</td>
</tr>
<tr>
<td>Environmental Education</td>
<td>6</td>
</tr>
<tr>
<td>Experiential Learning</td>
<td>6</td>
</tr>
<tr>
<td>Guides</td>
<td>7</td>
</tr>
<tr>
<td>Handicapped</td>
<td>9</td>
</tr>
<tr>
<td>Orienteering</td>
<td>9</td>
</tr>
<tr>
<td>Outward Bound</td>
<td>11</td>
</tr>
<tr>
<td>Program Descriptions</td>
<td>11</td>
</tr>
<tr>
<td>Program Development</td>
<td>12</td>
</tr>
<tr>
<td>Program Evaluation</td>
<td>13</td>
</tr>
<tr>
<td>Program Planning</td>
<td>14</td>
</tr>
<tr>
<td>Recreation</td>
<td>15</td>
</tr>
<tr>
<td>Residential Programs</td>
<td>16</td>
</tr>
<tr>
<td>Resource Guides</td>
<td>16</td>
</tr>
<tr>
<td>Sensory Experience</td>
<td>17</td>
</tr>
<tr>
<td>Site Development</td>
<td>18</td>
</tr>
<tr>
<td>Teaching Guides</td>
<td>19</td>
</tr>
</tbody>
</table>
Key to Citations

<table>
<thead>
<tr>
<th>An</th>
<th>Accession number: identifying number assigned to documents and/or journal articles as they are processed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAN</td>
<td>Clearinghouse accession number</td>
</tr>
<tr>
<td>TI</td>
<td>Title</td>
</tr>
<tr>
<td>AU</td>
<td>Author</td>
</tr>
<tr>
<td>SPO</td>
<td>Sponsoring Agency</td>
</tr>
<tr>
<td>OS</td>
<td>Organizational Source</td>
</tr>
<tr>
<td>SO</td>
<td>Publication date and number of pages</td>
</tr>
<tr>
<td>AV</td>
<td>Alternate Availability</td>
</tr>
<tr>
<td>NO</td>
<td>Notes</td>
</tr>
<tr>
<td>NU</td>
<td>Contract Number</td>
</tr>
<tr>
<td>DT</td>
<td>Document Type</td>
</tr>
<tr>
<td>IT</td>
<td>Index Terms</td>
</tr>
<tr>
<td>ST</td>
<td>Supplementary Terms - identifiers not found in Thesaurus of ERIC Descriptors</td>
</tr>
</tbody>
</table>

Sample Citation

<table>
<thead>
<tr>
<th>AN</th>
<th>ED148548</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAN</td>
<td>RG010308</td>
</tr>
<tr>
<td>TI</td>
<td>Teaching Through Adventure: A Practical Approach</td>
</tr>
<tr>
<td>SO</td>
<td>(1976): 97pp</td>
</tr>
<tr>
<td>AV</td>
<td>Document Not Available from EDRS. Project Adventure, Box 157, Hamilton, Massachusetts 01936 ($4.50)</td>
</tr>
<tr>
<td>DT</td>
<td>G (Guides &amp; Manuals)</td>
</tr>
<tr>
<td>ST</td>
<td>*Adventure Activities: *Experimental Learning</td>
</tr>
</tbody>
</table>
ADVENTURE EDUCATION

AN - ED148548
CHAN - RC010308
TI - Teaching Through Adventure: A Practical Approach
SO - (1976): 97pp
AV - Document Not Available from EDRS. Project Adventure, Box 157, Hamilton, Massachusetts 01936 ($4.50)
DT - G (Guides & Manuals)
IT - Activity Learning; Art; Biological Sciences; Camping; Concept Formation; Curriculum Development; Curriculum Guides; Educational Objectives; English Curriculum; Field Trips; Group Activities; Interdisciplinary Approach; Outdoor Education; Planning; Program Descriptions; Program Development; Program Evaluation; Secondary Education
ST - *Adventure Activities; Experiential Learning

AN - ED148550
CHAN - RC010310
TI - Cranking Out Adventure: A Bike Leader's Guide to Trial and Error Touring
AU - Rohnke, Karl
SO - (1977): 40pp
AV - Document Not Available from EDRS. Project Adventure, P.O. Box 157, Hamilton, Massachusetts 01936 ($3.00)
DT - G (Guides & Manuals)
IT - *Bicycling; *Camping; Clothing; Costs; *Equipment; Equipment Maintenance; First Aid; Food; Group Activities; *Guides; *Instructional Trips; *Outdoor Education; Physical Fitness; Planning; Psychological Needs; Recreational Activities; Safety; Secondary Education
ST - *Adventure Activities; Experiential Learning

AN - ED148618
CHAN - SPD012114
TI - Coastsails and Cobras: A Guide to Ropes Courses, Initiative Games, and Other Adventure Activities
AU - Rohnke, Karl
SO - (1977): 160pp
AV - Document Not Available from EDRS. Project Adventure, P.O. Box 157, Hamilton, Mass. 01936 ($6.50)
DT - C (Curriculum Materials & Teacher-Developed Materials)
IT - Curriculum Enrichment; *Curriculum Guides; *Outdoor Education; *Physical Activities; Physical Education; Risk; Secondary Education
ST - *Adventure Activities; *Rope Exercises
BIBLIOGRAPHIES

AN - ED136971
CHAN - RC099715
TI - Outdoor Education. A Selected Bibliography (with ERIC Abstracts).
      ERIC/CRESS Supplement No. 6
OS - New Mexico State Univ., University Park. ERIC Clearinghouse on
      Rural Education and Small Schools.
SO - Mar 1977; 111pp
      RIE77AUG
AV - EDRS Price MF-$0.83 HC-$6.01 Plus Postage. (2 MF). National
      Educational Laboratory Publishers, Inc., 813 Airport Boulevard,
      Austin, Texas 78702 (Stock No. EC-052, $5.50)
NO - For related document, see ED 118 306
NU - Contract: 400-75-0025
DT - J (Journals & Periodicals)
IT - Abstracts; Activity Learning; Annotated Bibliographies; Camping;
      Conservation Education; Curriculum Guides; Elementary
      Secondary Education; Environmental Education; Field
      Trips; Handicapped Children; Higher Education; Instructional
      Materials; Learning Activities; Natural Resources; Outdoor
      Education; Program Descriptions; Program Development; Resource
      Guides; Science Activities; Science Education; Subject Index
      Terms; Teaching Guides; Urban Education

AN - ED138384
CHAN - RC099837
TI - CRESS-CROSS, 1976
AU - Calderon, Margarita. Ed.
OS - New Mexico State Univ., University Park. ERIC Clearinghouse on
      Rural Education and Small Schools.
SO - (1976); 26pp
      RIE77SEP
AV - EDRS Price MF-$0.83 HC-$2.06 Plus Postage. (1 MF).
NO - Related documents include ED 108 794-801
NU - Contract: 400-75-0025
DT - J (Journals & Periodicals)
IT - American Indians; Bibliographies; Bilingual Education;
      Educational Needs; Literature Reviews; Mexican Americans;
      Migrant Education; Newsletters; Outdoor Education; Rural
      Education; Small Schools

AN - ED149884
CHAN - RC010262
TI - Outdoor Education. A Bibliography of ERIC Abstracts: Supplement
      No. 7
OS - New Mexico State Univ., University Park. ERIC Clearinghouse on
      Rural Education and Small Schools.
SO - Jan 1978; 2pp
      RIE78JUN
AV - EDRS Price MF-$0.83 HC-$6.01 Plus Postage. (118 MF). National
      Educational Laboratory Publishers, Inc., 813 Airport Boulevard,
      Austin, Texas 78702 (Stock No. EC-060; $6.00)
NO - For related document, see ED 136 971
NU - Contract: 400-75-0025
DT - L (Bibliographies & Reviews)
IT - Abstracts; Activity Learning; Annotated Bibliographies;
      Camping; Conservation Education; Curriculum Guides; Elementary
      Education; Environmental Education; Instructional Materials;
      Learning Activities; Outdoor Education; Periodicals; Resident
      Camp Programs; Resource Guides; Science Activities; Subject Index
      Terms; Teaching Guides
DIRECTIONS

AN - ED139571
CHAN - RC089905
TI - Outward Bound Adaptive Programs in Private Schools
OS - Colorado Outward Bound School, Denver.
SQ - (1974): 1pp
AV - EDRS Price MF-$0.83 Plus Postage. HC Not Available from EDRS. (23 MF).
DT - D (Directories)
ST - Experiential Learning: "Outward Bound

AN - ED140994
CHAN - RC009919
TI - Directory of Outdoor Education Degree Programs in Higher Education
AU - Bachert, Russell E., Jr.
OS - New Mexico State Univ. University Park. ERIC Clearinghouse on Rural Education and Small Schools.
SO - Jun 1977: 4pp
AV - EDRS Price MF-$0.83 HC-$18.07 Plus Postage. (334 MF). National Educational Laboratory Publishers, Inc., 813 Airport Boulevard, Austin, Texas 78702 (Stock No. EC-053, $12.00)
NU - Contract: 400-75-0025
DT - D (Directories)

ECOLOGY

AN - ED144753
CHAN - RC010104
TI - An Environmental Handbook of the Marble Area
AU - Campbell, Dan
OS - Colorado Outward Bound School, Denver.
SQ - 1974: 1pp
AV - EDRS Price MF-$0.83 HC-$2.06 Plus Postage. (49 MF). Colorado Outward Bound School, 945 Pennsylvania Street, Denver, Colorado 80203 ($1.50)
DT - G (Guides & Manuals)
ST - *Colorado: Maroon Bells Showmass Wilderness Area
ENVIRONMENTAL EDUCATION

AN - ED139672
CHAN - SE022654
TI - A Quantitative Comparison of Environmental Education, Conservation Education, Outdoor Education, Ecological Education, Environmentalized Education and General Education based on Goals
AU - Johnson, David L.
SO - (1977); 2pp
AV - EDRS Price MF-$0.83 HC-$7.35 Plus Postage (148 MF).
NO - Ph.D. Dissertation, Michigan State University; Tables may be marginally legible due to small type
DT - T (Theses & Dissertations)

AN - ED144764
CHAN - RC010117
TI - Colorado Outdoor Education Center Teacher's Field Guide
OS - Colorado Outdoor Education Center, Inc., Florissant.
SO - (1975); 184pp
AV - Document Not Available from EDRS. Colorado Outdoor Education Center, Florissant, Colorado 80816 ($2.00)
DT - G (Guides & Manuals)
ST - *Colorado: *Colorado Outdoor Education Center: Experiential Learning

EXPERIENTIAL LEARNING

AN - ED139572
CHAN - RC009906
TI - Toward Defining Measurable Objectives in the Affective Domain for Experiential Education Programs
AU - Mckean, Bob, Ed.; And Others
OS - Colorado Outward Bound School, Denver.
SO - (1975); 1pp
AV - EDRS Price MF-$0.83 HC-$7.35 Plus Postage (148 MF). Colorado Outward Bound School, 945 Pennsylvania Street, Denver, Colorado 80203 ($1.00)
DT - B (Books & Texts)
ST - *Experiential Learning: *Outward Bound
AN - ED139563
CHAN - RC009897
OS - Colorado Outward Bound School, Denver.
SO - (1976). 2pp
AV - EDRS Price MF-$0.83 Plus Postage. HC Not Available from EDRS.(113
Denver, Colorado 80203 ($5.00)
DT - G (Guides & Manuals)
IT - Accident Prevention; Activity Learning: Camping: Course
Descriptions: Course Objectives: *Curriculum Guides: First Aid;
Interdisciplinary Approach; Lesson Plans: Map Skills: *Outdoor
Education: *Physical Activities: Policy: *Program Content:
Running: *Safety Education: Teaching Guides: Teaching Procedures
ST - *Colorado Outward Bound School: *Experiential Learning:
Orienteering: Outward Bound

AN - ED139564
CHAN - RC009898
OS - Colorado Outward Bound School, Denver.
SO - (1976). 1pp
AV - EDRS Price MF-$0.83 Plus Postage. HC Not Available from EDRS.(92
Denver, Colorado 80203 ($4.00)
DT - G (Guides & Manuals)
IT - Accountability: *Administrator Guides: Clothing: *Coordinators;
Educational Equipment: Equipment Maintenance: First Aid: Food:
Motor Vehicles: *Occupational Information: *Outdoor Education:
Performance Specifications: Purchasing: Records (Forms);
*Responsibility: Summer Programs
ST - Colorado Outward Bound School: *Logistics: *Outward Bound

AN - ED198549
CHAN - RC009820
TI - Going Camping? A Basic Guide to Camping with Students
SO - (1977): 39pp
AV - Document Not Available from EDRS. Project Adventure, Box 157.
Hamilton, Massachusetts 01936 ($2.00)
DT - G (Guides & Manuals)
IT - *Camping: Clothing: *Equipment: First Aid: Food: *Guides:
Instructional Trips: Leadership: *Needs: *Outdoor Education:
*Planning: Policy Formation: Program Development: Records
(Forms): Safety: Secondary Education: Site Selection;
Transportation
ST - *Adventure Activities
HANDICAPPED

AN - ED134408
CHAN- SE021392
TI - Nature Trails for the Visually Impaired
AU - Schwartz, Jonathan R.
OS - Syracuse Univ., N.Y. Environmental Studies Inst.
SO - (1976); 47pp
AV - EDRS Price MF-$0.83 HC-$2.06 Plus Postage.(1 MF).
NO - Contains occasional light and broken type
IT - *Educational Facilities; *Educational Research; *Handicapped; *Nature Centers; *Outdoor Education; *Visually Handicapped
ST - Nature Trails

ORIENTEERING

AN - ED134384
CHAN- RC09657
TI - Incorporating Orienteering in School Programs
AU - Bradford, Douglas
OS - New Mexico State Univ., University Park. ERIC Clearinghouse on Rural Education and Small Schools.
SO - Mar 1977; 36pp
AV - EDRS Price MF-$0.83 HC-$2.06 Plus Postage.(1 MF). National Educational Laboratory Publishers. Inc., 813 Airport Boulevard, Austin, Texas 78702 (Stock No. EC-046. $3.00)
NU - Contract: 400-75-0025
DT - G (Guides & Manuals)
IT - *Activity Learning; Course Organization; Definitions; Distance; Educational Equipment; Elementary Education; *Interdisciplinary Approach; *Map Skills; *Outdoor Education; *Physical Activities; Program Costs; Program Guides; *Running; Skill Development; Time
ST - *Orienteering
The Great Newbury Marsh Hike

Aug 1974; 42pp

Bibliographies; Camping; Concept Formation; Environmental Research; History; Interdisciplinary Approach; Map Skills; Marine Biology; Navigation; Outdoor Education; Physics; Plant Identification; Secondary Education; Team Training; Teamwork

Triton Regional High School District MA

The Seacoast as Teacher: A Field Experience. (An Adventure in Learning)

Aug 1974; 35pp

Curriculum was developed as part of the Cape Ann Investigations-a three week summer workshop

Activity Learning; Camping; Curriculum Guides; Discovery Learning; Field Trips; Food; Group Activities; Interdisciplinary Approach; Learning Activities; Outdoor Education; Plant Identification; Sciences; Secondary Education; Social Sciences; Water Resources

Coastlines; Experiential Learning; Rhode Island

Gloucester: Going and Discovering

1976; 7pp

Activity Learning; Curriculum Guides; Educational Objectives; English; Field Trips; Grade; Group Activities; Motivation; Outdoor Education; Secondary Education; Units of Study; Writing Exercises

Experiential Learning; Massachusetts (Gloucester)
OUTWARD BOUND

PROGRAM DESCRIPTIONS

AN - ED145980
CHAN - RC010146
TI - Outdoor Laboratory and Community Nature Center
AU - Korth, Stephanie H.; Wurster, Stanley R.
SO - Jul 1977; 1pp
AV - EDRS Price MF-$0.83 HC-$1.67 Plus Postage. (16 MF).
DT - K (Program/Project Descriptions)
IT - Activity Learning; Community Involvement; Community Programs; Curriculum Development; Elementary Secondary Education; Environmental Education; Interdisciplinary Approach; Learning Laboratories; Nature Centers; Outdoor Education; Program Descriptions; Site Development
ST - 'Arizona (Prescott): Elementary Secondary Education Act Title III: Outdoor Laboratory and Community Nature Center AZ

AN - ED148514
CHAN - RC010221
TI - Milestone 25 (NIU's Outdoor Teacher Education Programs -- Twenty-five Years of Pioneering). Lorado Taft Field Campus, Commemorative Brochure
AU - Peterson, Donald C.; Hammerman, Donald R.
DO - Northern Illinois Univ., Oregon. Lorado Taft Field Campus.
SO - Mar 1977; 1pp
AV - EDRS Price MF-$0.83 HC-$1.67 Plus Postage. (13 MF).
DT - K (Program/Project Descriptions)
IT - Curriculum; Faculty; Field Experience Programs; Higher Education; Laboratory Training; Off Campus Facilities; Outdoor Education; Teacher Education; Universities
ST - *Northern Illinois University
PROGRAM DEVELOPMENT

AN - ED136998
CHAN - RC009776
TI - A Study of the Effects a Residential Outdoor Education Experience Had on Adults Who Attended a Program in Rockford as Students in 1963 and 1966
AU - Ward, Mary E.
SO - (1 Dec 1976): 45pp
AV - EDRS Price MF-$0.83 HC-$2.06 Plus Postage.(1 MF).
NO - Term report for "Outdoor Teacher Education 555: Introduction to Educational Research in Outdoor Education"
DT - R (Research & Technical Reports)
ST - *Illinois (Rockford)

AN - ED139590
CHAN - RC009926
TI - Herbertisme
AU - Cousineau, Claude
OS - Ontario Ministry of Culture and Recreation. Toronto.
SO - 1976: 2pp
AV - EDRS Price MF-$0.83 Plus Postage. HC Not Available from EDRS. (97 MF). Ontario Government Book Store. 880 Bay Street. Toronto. Ontario. Canada M7A 1N8 ($0.50)
DT - C (Curriculum Materials & Teacher-Developed Materials)
IT - Cartoons; Concept Formation: Definitions; *Guides; *Illustrations; *Outdoor Education; *Physical Education; *Program Development; *Site Development; Site Selection
ST - *Experiential Learning: *Herbertisme
AN - ED144777
CHAN - RC010142
TI - The Administration of Outdoor Education Programs
AU - Lewis, Charles A., Jr.
SO - (1975): 83pp
AV - Document Not Available from EDRS. Kendall/Hunt Publishing Company, 2460 Kerper Boulevard, Dubuque, Iowa 52001 ($3.95)
DT - B (Books & Texts)
IT - Concept Formation; *Curriculum Development; Definitions; Environmental Education; Financial Support; *Guides; Instructional Materials; Interagency Cooperation; Organization; Orientation Materials; *Outdoor Education; Planning; *Program Administration; *Program Development; Scheduling; Site Selection; *Teacher Orientation

AN - ED144785
CHAN - SE022890
TI - A System Approach to the Development of a Wildland Setting and Associated Program for Environmental Education
AU - Prater, Merle Pafford
SO - (1977): 2pp
AV - EDRS Price MF-$0.83 Plus Postage. HC Not Available from EDRS (141 MF).
NO - M.S. Dissertation, Washington State University: Not available in hard copy due to marginal legibility of original document
DT - T (Theses & Dissertations)
IT - Conservation Education; *Curriculum Development; *Elementary Secondary Education; *Environmental Education; Masters Theses; *Outdoor Education; *Program Development

PROGRAM EVALUATION

AN - ED135544
CHAN - RC009705
TI - Administrative Procedures for Establishing an Effective Outdoor Program for 5th Grade Students of the Houston Independent School District
AU - Hucklestein, Joseph J.
SO - 3 Aug 1976; 161pp
AV - EDRS Price MF-$0.83 HC-$8.69 Plus Postage (2 MF).
NO - Practicum Report for Ed.D. degree. Nova University
DT - R (Research & Technical Reports)
IT - *Camping; *Changing Attitudes; Curriculum Guides; *Environmental Education; Grade 5; *Outdoor Education; *Program Evaluation; Self Concept; *Student Attitudes
ST - *Houston Independent School District TX
AN - ED139555
CHAN- RC009888
TI - Project BACSTOP. E.S.E.A. Title III. Evaluative Report. 1975-1976
AU - Snooks, Lee; Long, Daniel
OS' - Battle Creek Public Schools. Mich.
SO - 9 Aug 1976: 1pp
- RIE770CT
AV - EDRS Price MF-$0.83 HC-$4.67 Plus Postage. (84 MF).
LPA - 88 (Supplementary Centers & Services. PL 88-10. Title III)
DT - Y (Annuals & Yearbooks)
ST - *Battle Creek School District MI: Orienteering: *Project BACSTOP

AN - ED14:039
CHAN- RC009985
TI - A Review of Research and Evaluation Literature on Outward Bound and Related Educational Programs
AU - Godfrey. Robert
SO - 8 Oct 1974: 1pp
- RIE77NOV
AV - EDRS Price MF-$0.83 Plus Postage. HC Not Available from EDRS. (22 MF). Colorado Outward Bound School. 945 Pennsylvania Street. Denver. Colorado 80203 ($1.00)
NO - Paper presented at the Conference on Experiential Education (Estes Park. Colorado. October 8-11, 1974): Parts may be marginally legible due to small print of the original document
DT - R (Research & Technical Reports)
ST - *Experiential Learning: Outward Bound

PROGRAM PLANNING

AN - ED139565
CHAN- RC009899
TI - A Planning Guide for Short Backpacking and Ski Touring Courses with Colorado Outward Bound School
AU - McLoud. Ricki
SO - Sep 1975: 1pp
- RIE770CT
AV - EDRS Price MF-$0.83 Plus Postage. HC Not Available from EDRS. (66 MF). Colorado Outward Bound School. 945 Pennsylvania Street. Denver. Colorado 80203 ($2.00)
DT - G. (Guides & Manuals)
ST - *Backpacking: Colorado Outward Bound School: Outward Bound:
*Skiing
**TI** - Team Reconnaissance: A Process for Involving Teachers in the Preplanning of Experiential Education Projects

**AU** - Kielmeier, Jim

**OS** - Colorado Outward Bound School, Denver.

**SO** - May 1975: 1pp

**AV** - EDRS Price MF-$0.83 HC-$1.67 Plus Postage (12 MF).

**DT** - G (Guides & Manuals)

**IT** - Activity Learning; Educational Planning; Field Check; Group Activities; Guides; *Outdoor Education; *Program Planning; *Site Selection; *Teacher Participation; Teacher Responsibility; *Teamwork

**ST** - *Experiential Learning; Outward Bound; *Reconnaissance

---

### Recreation

**AN** - ED134414

**CHAN** - SE021431

**TI** - Recreation Activity Clustering: Behavioral and Management Implications

**AU** - Yoestirg, Dean R.

**SO** - 1975: 29pp

**AV** - EDRS Price MF-$0.83 HC-$2.06 Plus Postage (1 MF).

**DT** - K (Program/Project Descriptions)

**IT** - *Behavior Patterns; *Outdoor Education; *Recreation; *Recreational Activities; *Recreational Facilities; Research

**ST** - *Research Reports

---

**AN** - ED137523

**CHAN** - CE01036D

**TI** - Outdoor Recreation. Curriculum Materials for Agricultural Education

**AU** - McElwee, Robert; And Others

**OS** - Virginia Polytechnic Inst. and State Univ., Blacksburg. Agricultural Education Program.


**SO** - (1976): 83pp

**AV** - EDRS Price MF-$0.83 HC-$4.67 Plus Postage (1 MF).

**NO** - Speech presented at a staff development seminar (The Center for Vocational Education, The Ohio State University, Columbus, Ohio, December 1976)

**NU** - Report: NRM-1

**LPA** - 08 (Adult & Voc. Ed., PL 88-210)

**DT** - C (Curriculum Materials & Teacher-Developed Materials)

**IT** - Agriculture: *Agricultural Education; Career Exploration; Curriculum Guides; Management; Natural Resources: Off Farm Agriculture; Occupational Occupations: Post Secondary Education; *Recreation; Recreational Facilities; Recreational Programs; Recreation Finances; Recreation Legislation; Teaching Guides; *Vocational Agriculture; Vocational Education

**ST** - *Outdoor Recreation
RESIDENTIAL PROGRAMS

AN - ED134419
CHAN- SE021491
TI - Guide for Self-Appraisal and Certification of Resident Outdoor Environmental Education Programs
OS - Los Angeles County Superintendent of Schools, Calif.
SO - California State Dept. of Education, Sacramento.
AV - EDRS Price MF-$0.83 HC-$4.67 Plus Postage.(1 MF).
DT - G (Guides & Manuals)
ST - California: Resident Outdoor Education

AN - ED143463
CHAN- RC009541
TI - Effects of a Resident Outdoor School Experience Upon Behavior of Selected Fifth Grade Students
AU - Berry, Christine
AV - Document Not Available from EDRS. Inter-Library Loan.
NO - MS Thesis, Pennsylvania State University, University Park, Pennsylvania 16802
DT - T (Theses & Dissertations)
ST - Devereux Elementary School Behavior Rating Scale: Peterson Quay Behavior Problem Checklist: State College Area School District PA: Stone Valley Outdoor School PA

RESOURCE GUIDES

AN - ED139566
CHAN- RC009900
TI - Resource Guide to the Pawnee Grasslands
AU - Kiesmeyer, Jim; And Others
OS - Colorado Outward Bound School, Denver.
SO - Aug 1975; 1pp
AV - EDRS Price MF-$0.83 HC Not Available from EDRS.(35 MF). Colorado Outward Bound School, 945 Pennsylvania Street, Denver, Colorado 80203 ($2.00)
DT - G (Guides & Manuals)
ST - Colpado: Logistics: Pawnee Grasslands
SENSSORY EXPERIENCE

AN - ED134362
CHAN- RC009631
TI - Strategies to Affect Student Sensory Awareness of the Environment In a Rural Schools Setting: Grade Four through Grade Six
AU - Peters, Richard O.
SO - Aug 1976: 15pp
   - RIE77JUN
AV - EDRS Price MF-$0.83 HC-$1.67 Plus Postage (1 MF)
NO - For related documents, see ED 125 838 and RC 009 632
DT - G (Guides & Manuals)
IT - Activities: Concept Formation: Curriculum Guides: Educational Objectives: Elementary Education: Environmental Education: Grade 4: Grade 5: Grade 6: Lesson Plans: Outdoor Education: Program Descriptions: Rural Areas: Rural Schools: Sensory Experience
ST - New Hampshire: Proximity
SITE DEVELOPMENT

AN - ED139592
CHAN - RC009928
TI - The Appalachian Trail: Guidelines for Preservation. Revised May 1977
OS - Pennsylvania State Univ., University Park. Dept. of Landscape Architecture
SPO - Pennsylvania State Dept. of Community Affairs, Harrisburg
SO - May 1977; 3pp
AV - EDRS Price MF-$0.83 HC-$12.71 Plus Postage.(229 MF).
DT - G (Guides & Manuals)
ST - *Appalachian Trail

AN - ED141952
CHAN - EA009770
AU - Tully, Randolph R., Jr.
OS - Montgomery County Intermediate Unit '23, Blue Bell, Pa.; Research and Information Services for Education, King of Prussia, Pa.
SO - 1975: 1pp
AV - EDRS Price MF-$0.83 HC-$2.06 Plus Postage.(39 MF).
NO - For a related document, see ED 087 692
DT - R (Research & Technical Reports)
OUTDOOR EDUCATION
A SELECTED BIBLIOGRAPHY
CURRENT INDEX TO JOURNALS IN EDUCATION

BOTANY .................................................. 22
CAMPING .................................................. 23
CURRICULUM DEVELOPMENT .......................... 24
DEATH ...................................................... 25
ECOLOGY ................................................... 25
ENVIRONMENTAL EDUCATION ....................... 26
EXPERIENTIAL LEARNING ............................. 27
FIELD TRIPS .............................................. 28
HANDICAPPED .......................................... 28
HIGHER EDUCATION .................................... 30
LAND USE .................................................. 31
MARINE BIOLOGY ......................................... 31
NATURAL RESOURCES ................................... 32
PHYSICAL EDUCATION .................................. 33
PROGRAM DESCRIPTIONS .............................. 34
RECREATIONAL ACTIVITIES ............................ 35
RESEARCH NEEDS ........................................ 37
SCIENCE ACTIVITIES ................................... 37
TEACHER EDUCATION ................................... 39
URBAN STUDIES .......................................... 41
Key to Citations

<table>
<thead>
<tr>
<th>AN</th>
<th>Accession Number: identifying number assigned to documents and/or journal articles as they are processed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAN</td>
<td>Clearinghouse Accession Number</td>
</tr>
<tr>
<td>TI</td>
<td>Title</td>
</tr>
<tr>
<td>AU</td>
<td>Author</td>
</tr>
<tr>
<td>OS</td>
<td>Organizational Source</td>
</tr>
<tr>
<td>SO</td>
<td>Source (as from a journal)</td>
</tr>
<tr>
<td>DT</td>
<td>Document Type</td>
</tr>
<tr>
<td>IT</td>
<td>Index Terms</td>
</tr>
<tr>
<td>ST</td>
<td>Supplementary Terms - identifiers not found in Thesaurus of ERIC Descriptors</td>
</tr>
</tbody>
</table>

Sample Citation:

AN  - EJ160949
CHAN - SE519190
TI  - GRASSES AND WEEDS
AU  - MCINTYRE, MARGARET, ED.
SO  - SCIENCE AND CHILDREN: 14: 7: 28-29 (APR 1977)
    - CIJE77
IT  - *BOTANY: *EARLY CHILDHOOD EDUCATION: *ELEMENTARY SCHOOL
    - SCIENCE: ELEMENTARY EDUCATION: INSTRUCTIONAL MATERIALS:
    - *OUTDOOR EDUCATION: PRIMARY EDUCATION: *SCIENCE ACTIVITIES:
    - SCIENCE EDUCATION: *WEEDS
AB  - SUGGESTS OUTDOOR ACTIVITIES THAT INVOLVE SMALL GROUPS OF CHILDREN IN DISCOVERIES ABOUT GRASSES AND WEEDS. INCLUDED ARE ACTIVITIES WITH DANDELIONS, PLANTAINS, CHICKWEED, CLOVER AND FESCUE. (CS)
AN - EJ160949
CHAN - SE519190
TI - GRASSES AND WEEDS
AU - MCKINLEY, MARGARET, ED.
SO - SCIENCE AND CHILDREN: 14: 7: 28-29 (APR 1977)
CIJE77
IT - "BOTANY; ELEMENTARY EDUCATION; INSTRUCTIONAL MATERIALS; OUTDOOR EDUCATION; PRIMARY EDUCATION; SCIENCE ACTIVITIES; SCIENCE EDUCATION; "WEEDS"
AB - SUGGESTS OUTDOOR ACTIVITIES THAT INVOLVE SMALL GROUPS OF CHILDREN IN DISCOVERIES ABOUT GRASSES AND WEEDS. INCLUDED ARE ACTIVITIES WITH DANDELIONS, PLANTAINS, CHICKWEED, CLOVER AND FESCUE. (CS)

AN - EJ162872
CHAN - RC502508
TI - "IF YOU KNOW SUMAC...LIKE I KNOW SUMAC..."
AU - DEMSKE, DEBBIE
SO - COMMUNICATOR: 8. 2. 12-14 (SPR-SUM 1977)
CIJE77
IT - "BOTANY; ENVIRONMENTAL EDUCATION; OUTDOOR EDUCATION; PLANT IDENTIFICATION; TREES; USE STUDIES"
ST - SUMAC

AN - EJ162876
CHAN - RC502511
TI - SPRING FLOWERS--THE HARVEST OF A SENSITIVE EYE
AU - LEVIN, TED
SO - COMMUNICATOR: 8. 2. 29-34 (SPR-SUM 1977)
CIJE77
IT - "BOTANY; ENVIRONMENTAL EDUCATION; OUTDOOR EDUCATION; PLANT IDENTIFICATION"
AB - TWELVE FLOWERS ARE DESCRIBED IN THE ORDER OF THEIR APPEARANCE IN THE SPRING. CRAWINGS COMPLIMENT THE TEXT. FLOWERS ARE THE HEPATICA, BLOODROOT, RED TRILLIUM, WILD GINGER, MARSH MARIGOLD, JUNE'BERRY, SHADBUSH, KILD IRIS, CLINTONIA, STARFLOWER, LABRADOR TEA, BUNCHBERRY, AND PARTRIDGE BERRY. (NO)

AN - EJ174181
CHAN - RC502714
TI - Deciduous Plant Twigs In Winter
AU - CLARK, ELISE
SO - COMMUNICATOR: 9. 1. 5-12 (F-WIN 1977)
CIJE78
IT - "ENVIRONMENTAL EDUCATION; ILLUSTRATIONS; OUTDOOR EDUCATION; PLANT IDENTIFICATION; PLANT SCIENCE"
AB - DESCRIBING, VIA ILLUSTRATION AND NARRATIVE, THE WINTER TWIGS FOUND IN THE U.S., THIS ARTICLE PRESENTS A SOPHISTICATED DISCUSSION OF: BEACh, WHITE ASH, ASPEN, SYCAMORE, RED OAK, BUTTERCUP, AND OTHER WINTER TWIGS. (JC)
The methodology for developing and using diazo leaves as a means of instruction in the classroom is described. (JC)

CAMPING

MORE AND MORE SCHOOLS ARE MAKING CAMPING PART OF THE CURRICULUM. WHETHER YOU AND YOUR CLASS TAKE A SIMPLE OVERNIGHT OR A WEEK-LONG TREK INTO THE WILDS, YOU'LL FIND HELP AND ENCOURAGEMENT IN THESE THREE ARTICLES. (EDITOR/RK)

THE ARTICLE DISCUSSES THE PROBLEMS AND EXPERIENCES OF A BEGINNING TEACHER WHO IS CONDUCTING AN OUTDOOR EDUCATION EXPERIENCE FOR THE FIRST TIME. (NO)

Begun as a summer camp in 1961, Camp Tawingo operates year-round in the province of Ontario. This article discusses the Camp's history, development, philosophy, objectives, location, seasonal schedule, staff, and uses by schools and other groups. (NO)
The extended resident outdoor education experience is one of the most successful ways for an individual to have consistent positive experiences in terms of learning, socialization, and growth of self-concept. (Author/JC)

Students at a California elementary school spent three days on a coastal wilderness trip where they learned about the history and ecological relationships of the area. Children assumed the responsibility for camp chores and disciplined themselves to fit their natural surroundings. Personal awareness of the natural environment was stressed. (MA)

CURRICULUM DEVELOPMENT

Through careful planning, a little imagination, and utilization of all the resources available in the area, a one-day outdoor education day can provide meaningful, direct, first-hand learning experiences that can serve as a springboard for interesting, relevant, long-term study both in the classroom and in the outdoors. (Author/NQ)
AN - EJ159905
CHAN - AA525844
TI - OUTDOOR EDUCATION AND DEATH.
AU - HAUSS, KENNETH
SO - INDEPENDENT SCHOOL: 36: 3; 43-4 (FEB 1977)
IT - *DEATH; GROUP EXPERIENCE; *OUTDOOR EDUCATION; *PARENT SCHOOL RELATIONSHIP: PRIVATE SCHOOLS; STUDENT TEACHER RELATIONSHIP; *STUDENT EXPERIENCE; *TEACHER ATTITUDES
AB - FOR OVER 20 YEARS A TEACHER FROM THE COLORADO ROCKY MOUNTAIN SCHOOL, CARBONDALE, COLORADO, HAS BEEN LEADING HIS STUDENTS THROUGH OUTDOOR TRIPS. HERE HE SHARES HIS THOUGHTS ON OUTDOOR EDUCATION AND WHAT HAPPENS WHEN A DEATH OCCURS ON A SCHOOL TRIP BY ASKING QUESTIONS AND GIVING ANSWERS FROM HIS EXPERIENCE.
(AUTHOR/RK)

ECOLOGY

AN - EJ159428
CHAN - SE519923
TI - BUILDING AN ECOLOGICAL CONSCIENCE
AU - KENDALL, DAVID L.
IT - COURSE DESCRIPTIONS; *ELEMENTARY SECONDARY EDUCATION; *ECOLOGY; *FIELD STUDIES; *INSTRUCTION: JUNIOR HIGH SCHOOL STUDENTS; *OUTDOOR EDUCATION: SCIENCE ACTIVITIES: SCIENCE EDUCATION: STUDENT ATTITUDES
AB - DESCRIBES AN OUTDOOR SCIENCE PROJECT FOR JUNIOR HIGH STUDENTS THAT DEEPLY INVOLVES THE OBSERVER WITH THE NATURAL ENVIRONMENT HE IS OBSERVING. LISTS TEACHING TACTICS THAT PROMOTE DEEP STUDENT AWARENESS OF THE ENVIRONMENT. DESCRIBES FOUR INTRODUCTORY ACTIVITIES AND AN EXAMPLE OF AN INVESTIGATION THAT MIGHT NORMALLY GROW OUT OF AN INTRODUCTORY ACTIVITY. (CS)
The Arizona-Sonora Desert Museum uses such quaint teaching tools as the Gila monster and the boojum tree to tell the story of its vast and fascinating but often misunderstood desert environment.

This source guide is the result of a larger study done to assess information about the new field of park resource interpretation. It contains those sources identified by a random sample of persons in the field. The bibliography is divided into 11 categories and includes the usual bibliographic information.
EXPERIENTIAL LEARNING

AN - EJ162874
CHAN- RC502509
TI - EDUCATION FOR RESOURCEFUL LIVING
AU - MULKEEN, THOMAS A.
SO - COMMUNICATOR: 8, 2, 15-19 (SPR-SUM 1977)
CIJE77
ST - *EXPERIENTIAL LEARNING
AB - THE CENTER FOR RESOURCEFUL LIVING AT NORTH ADAMS STATE COLLEGE WAS DEVELOPED TO TEACH STUDENTS THE SKILLS THAT WILL ALLOW THEM TO BECOME MORE SELF-SUFFICIENT, PROVIDING THEIR FOOD, ENERGY, AND SHELTER NEEDS, AS WELL AS VALUES THAT WILL SERVE AS GUIDES IN DEVELOPING A SATISFYING, HEALTHY AND MEANINGFUL LIFE. (NO)
AN - EJ179682
CHAN- RC502838
TI - Challenging the Past...Future: Directions in Education
AU - Greenberg, Ellie
IT - Educational History; Educational Trends; Educational Experience; Educational Development; Futures (of Society); Outdoor Education; Relevance (Education)
ST - Experiential Learning
AB - The two-part article focuses on where we've been, where we are, and where we're heading in experiential education. (Author/NQ)

FIELD TRIPS

AN - EJ165250
CHAN- AA526358
TI - Putting the "Field" Back into the Field Trip
AU - Caras, Roger
SO - Instructor: 86: 8: 50 (Apr 1977)
IT - Creative Teaching; Educational Resources; Field Trips; Outdoor Education; Science Activities

AN - EJ178363
CHAN- SE520925
TI - Field Projects in the High School Earth Science Course
AU - VanZant, Kent
IT - Earth Science; Field Studies; Field Trips; Geology; Outdoor Education; Secondary School Science; Science Activities; Science Education; Science Units; Secondary Education
AB - Discusses the advantages and disadvantages of incorporating field projects into secondary level earth science courses. (SL)

HANDICAPPED

AN - EJ155629
CHAN- P5505448
TI - Designing a Special Playground
AU - Gillet, Pamela
SO - Children Today: 6: 1: 13-17 (Jan/Feb 1977)
IT - Educational Environment; Early Childhood Education; Exceptional Students; Handicapped Children; Models; Outdoor Education; Physical Development; Playgrounds; School Architecture
AB - Describes how teachers and student architects planned an innovative outdoor learning area for trainable mentally handicapped and preschool multiply-handicapped children. (BF/JH)
AN - EJ173316
CHAN- CS710668
TI - The Acorn People
AU - Jones, Ron
SO - Media and Methods: 14: 5: 24-32,50-1 (Jan 1978)
IT - Camp Counselors: *Exceptional Child Services: Elementary
          Education: *Handicapped Children: *Outdoor Education:
          *Recreational Programs
AB - Describes the personal reflections of a camp counselor on working
     with severely handicapped youngsters. (KS)

AN - EJ174183
CHAN- RC502716
TI - Walden-in-the-Woods
AU - Christenson, Gary
SO - Communicator: 9: 1: 15-21 (F-Win 1977)
IT - Activities: Educational Objectives: Learning Disabilities:
     *Outdoor Education: *Program Descriptions: *Regular Class
     Placement: *Special Education
ST - *Mainstreaming
AB - Describing a program aimed at learning disabled boys aged 11-15.
     this article presents the program's purpose and goals
     (mainstreaming), activities, and main focus (a maple syrup
     operation and guide development project). (JC)

AN - EJ176548
CHAN- SP506782
TI - Discovery Through Outdoor Education
AU - Kaherl, Kristy
IT - *Adapted Physical Education: Elementary Secondary Education;
     *Field Experience Programs: *Outdoor Education: Program
     Descriptions: *Trainable Mentally Handicapped
ST - Macomb Intermediate School District (Michigan)
AB - The outdoor education program of the Macomb Intermediate School
     District (Michigan) enables trainable and severely mentally
     impaired students to experience many of the outdoor activities
     previously restricted to normally intelligent students. (MJB)

AN - EJ178250
CHAN- RC502805
TI - Practices and Trends in Outdoor Education for Exceptional
      Children: A Look at Mainstreaming
AU - Kingsley, Ronald F.; And Others
IT - *Educational Trends: *Exceptional Persons: *Educational Practice:
      *Outdoor Education: *Regular Class Placement
ST - *Mainstreaming: *Ohio
AB - Current practices and trends in outdoor education with
     exceptional children in 41 county and city school systems in Ohio
     were explored. Information was obtained on the type and degree of
     mainstreaming taking place. The results were then compared to a
     study conducted eight years ago. (Author/NO)
AN  -  EJ176550  
CHAN-  SP506784  
TI   -  Integrating Natural and Human Environments  
AU   -  Keating, Lou Ann: And Others  
AB   -  Participant and facilitator evaluation of a weekend residential outdoor experience for college women indicated that the goals of interpersonal, intrapersonal, intellectual, and physical growth were met. (MJB)

AN  -  EJ176551  
CHAN-  SP506785  
TI   -  Status of Outdoor Education Degree Programs  
AU   -  Bachert, Russel E., Jr.  
SO   -  Journal of Physical Education and Recreation: 49: 1: 35 (Jan 1978) - CIJE78  
AB   -  The author presents in question and answer format the findings of a survey of outdoor education degree programs offered in higher education. (MJB)

AN  -  EJ179680  
CHAN-  RC502836  
TI   -  Experiencing History  
AU   -  Crew, Adolf: And Others  
ST   -  *Alabama: *Experiential Learning  
AB   -  An innovative graduate course in education devoted to the development of techniques utilizing direct experience in the history curriculum, the 6-weekend course took a level of local cultural history each weekend, showed how that culture related to and changed the land, and whenever possible, communicated that with experiential learning. (NO)
LAND USE

This article is concerned with the educational use of school-owned land. The Ann Arbor, Michigan School Site Policy is discussed in detail. The goal of this policy statement is to encourage land use as a classroom to teach students the ecological principles that govern their survival on earth. (MA)

MARINE BIOLOGY

Through seineing individuals, families, camps, and schools can continually test the aquatic life just beyond the waterline. This article discusses the process of using a seine net and what can be found in the net. (NQ)
The merit of exploring an intertidal jetty sound is described in terms of the marine organisms living in the jetty's algal zones: calothrix, enteromorpha, and fucus zones. (JC)
CATCH THAT BUTTERFLY!


Elementary Education: Elementary School Science, Instructional Materials; Outdoor Education: Physical Activities; Science Activities; Science Education

Gives examples of active learning experiences for children in an outdoor setting. Discussed are ideas for role-playing and active physical involvement. (CS)

ADVENTURE PROGRAMMING-WILDERNESS AND URBAN


Field Experience Programs; Outdoor Education; Physical Education; Urban Environment

Adventure Planning; Wilderness Activities

The author briefly discusses the philosophy of adventure programming, presents illustrations of its application in wilderness areas, and suggests ways that it may be modified for urban environments. (MJB)

A NEW LOOK THROUGH OUTDOOR PURSUITS


Elementary Secondary Education: Educational Programs; Outdoor Education; Physical Education; Recreational Activities

Outdoor physical activities programs are feasible extensions of physical education. This article offers answers to some school organizational concerns about outdoor education, including liability, financing, scheduling, and transportation. (Author/DS)
PROGRAM DESCRIPTIONS.

AN - EJ160838
CHAN- RC502434
TI - READING INSTRUCTION IN THE OUT-OF-DOORS. AN EXAMPLE OF AN
INDIVIDUAL EFFORT TO IMPROVE INSTRUCTION
AU - MARTURANO, ARLENE
IT - *EDUCATIONAL ALTERNATIVES: Grade 5: INSTRUCTIONAL MATERIALS:
*LLESSON PLANS: OUTDOOR EDUCATION: PROGRAM DESCRIPTIONS: *READING
INSTRUCTION: READING DIFFICULTY
AB - DESCRIBING AN OUTDOOR ORIENTED READING PROGRAM DESIGNED FOR
CHILDREN (GRADE 5) WITH READING DIFFICULTIES. THIS ARTICLE
PRESENTS 8 SAMPLE READING LESSONS FOR AN ALTERNATIVE READING
PROGRAM. (JC)

AN - EJ163547
CHAN- AA526502
TI - The Busiest Outdoor School
AU - Marcovich, Sharon J.
IT - *Environmental Education: Educational Objectives: Females:
*Illustrations: *Learning Activities: *Outdoor Education: *Program
Descriptions: Program Costs: *Student Participation:
ST - *Environmental Learning Center
AB - Training people to become self-sufficient doers instead of
remaining passive watchers is the aim of the Environmental
Learning Center in Minnesota's far north woods. (Editor)

AN - EJ166570
CHAN- SE519856
TI - YCC: A Recipe for Youth Development
AU - Matthews, Bruce E.; Yagle, Charles H.
SO - Conservationist: 32: 3: 11-12 (Sep/Oct 1977)
IT - Conservation Education: *Environmental Education: *Outdoor
Education: *Program Descriptions: *Resident Camp Programs:
Secondary Grades: Secondary School Students: Youth Employment:
Youth Programs
ST - *Youth Conservation Corps: YCC
AB - A YCC project to improve and finish a complete outdoor education
center is described. The program and objectives are outlined.
Methods of evaluating the students experiences are listed.
Testing showed that the students attitudes toward themselves,
peers, and the environment became more positive. (Au)

AN - EJ166571
CHAN- SE519857
TI - Training New York's Bowhunters
AU - Kelsey, Paul
IT - *Archery: Adult Education: *Outdoor Education: *Program
Descriptions: *Wildlife Management
ST - *New York
AB - Because of the increase in bow and arrow hunting, the 1977
legislature passed a bill requiring bowhunting training classes.
The basic course outline is described and the method of
implementation is given. (Au)
AN - EJ174186
CHAN - RC502719
TI - The Ragged Hill Woods Student Environment Center: A Model for Cooperation among Regional Agencies
AU - Curtis, Otis
SO - Communicator: 9: 1: 29-31 (F-Win 1977)
CIJE78
IT - Elementary Secondary Education: *Interagency Cooperation:
Models: *Outdoor Education: Program Development: *Program Descriptions: *Regional Planning
ST - Connecticut (Windham County): *Ragged Hill Woods Student Environment Center
AB - A model of interagency cooperation the Windham County (Connecticut) Student Environment Center was begun entirely with resources available in most counties of the U.S. and is currently cooperating as a field based training center for pre-service elementary teachers and an educational camp for elementary and secondary students. (JC)

AN - EJ176348
CHAN - SE571246
TI - Something for Everybody
AU - Yach, James A.
CIJE78
ST - Audubon Society
AB - This article describes the community program in environmental education developed by the Jamestown Audubon Society. School children are taught conservation, ecology, and hydrology and work outdoors at the Audubon nature center. Other special programs include Saturday programs for older children, adult presentations, and student internships at the center. (MA)

RECREATIONAL ACTIVITIES

AN - EJ157474
CHAN - SE518782
TI - A WEED CANTILEVER
AU - KELLER, ELHANNAN L.; PADALINO, JOHN
CIJE77
IT - *EDUCATIONAL GAMES. *ELEMENTARY EDUCATION: *INSTRUCTIONAL MATERIALS: *OUTDOOR EDUCATION: *RECREATIONAL ACTIVITIES: SCIENCE ACTIVITIES
ST - CANTILEVERS
AB - DESCRIBES THE ENVIRONMENTAL ACTION TASK ACTIVITY, WHICH MAY BE USED AS A RECREATIONAL GAME OR AN ENVIRONMENTAL PERCEPTION EXPERIENCE. MAY BE CONDUCTED INDOORS OR OUT-OF-DOORS. USING WEED STEMS (OR SPAGHETTI) AND MASKING TAPE TO CONSTRUCT A CANTILEVER. SMALL GROUPS OF CHILDREN WORK TOGETHER TO MAKE THE CANTILEVER WITH THE LONGEST ARM. FURTHER ACTIVITIES ALSO LISTED. (CS)
AN - EJ159568
CHAN- SE519270
TI - THEY CALL IT ORIENTEERING
AU - WEXLER, MARK
ST - ORIENTEERING
AB - THROUGH THE USE OF PERSONAL ANECDOTES, THE AUTHOR DETAILS HIS INITIAL EXPERIENCE WITH ORIENTEERING. A SPORT RAPIDLY INCREASING IN POPULARITY THAT TEACHES PEOPLE NOT TO GET LOST IN THE WOODS. SOURCES OF INFORMATION ABOUT ORIENTEERING ARE PROVIDED. (BT)

AN - EJ16:526
CHAN- AA526199
TI - NATURE IN THE CLASSROOM
AU - DOYLE, CHARLES
SO - NJEA REVIEW: 50: 7: 14-5 (MAR 1977)
ST - BRIGANTINE NATIONAL WILDLIFE REFUGE; SALTMARSHES
AB - FOR THOSE INTERESTED IN STUDYING MASHES FIRSTHAND. THE BRIGANTINE NATIONAL WILDLIFE REFUGE IN OCEANVILLE, NEW JERSEY, IS THE PLACE TO GO. DISCUSSES WHY SALTMARSHES SHOULD BE PROTECTED. DESCRIBES ITS' CHANGING BIRD POPULATION. AND THE DEVELOPMENT OF OTHER SALTMARSHES RESULTING FROM THE WETLANDS ACT. (AUTHOR/RK)

AN - EJ162879
CHAN- RC502514
TI - WILDERNESS RECREATION EDUCATION
AU - DRURY, JACK K.
SO - COMMUNICATOR: 8: 2: 44-5 (SPR-SUM 1977)
ST - WILDERNESS RECREATION
AB - A WILDERNESS RECREATION EDUCATION PROGRAM AIMS TO: OFFER STUDENTS AN OPPORTUNITY TO BE INVOLVED WITH DIRECT LEARNING IN THE OUTDOORS; INSTILL AN UNDERSTANDING OF WAYS TO EXIST WITHIN AND ENJOY THE WILDERNESS ENVIRONMENT; AND DEVELOP AN AWARENESS OF AN APPRECIATION FOR THE NEED TO CONSERVE AND MAINTAIN THE WILDERNESS ENVIRONMENT FOR GENERATIONS TO COME. (AUTHOR/NO)

AN - EJ163022
CHAN- SE519617
TI - PERSONALITY, OUTDOOR RECREATION, AND EXPECTED CONSEQUENCES
AU - DRIVER, B.L.; KNOPH, RICHARD C.
ST - OUTDOOR RECREATION
AB - RESULTS OF EXPLORATORY RESEARCH ON RELATIONSHIPS BETWEEN PERSONALITY CHARACTERISTICS (MEASURED BY JACKSON'S PERSONALITY RESEARCH FORM), CHOICE OF RECREATION ACTIVITIES ENGAGED IN- ACTIVELY, FREQUENCY OF PARTICIPATION IN THOSE ACTIVITIES, AND THE DESIRED CONSEQUENCES EXPECTED FROM THAT PARTICIPATION ARE REPORTED. (EDITORS/BT)
AN - EJ168708
CHAN - SP506166
TI - Indian Summer for Wayfarers
AU - Kaltenbronn, Kyra
SO - Parks and Recreation: 12: 6: 49-50 (Jun 1977)
IT - Anthropology: *American Indian Culture: Archaeology: Group
      Activities: *Natural Resources: *Recreational Activities: *Social History: Youth Programs
AB - A recreational program involving hiking and camping emphasizes teaching young participants through archeology and adventure experiences about American Indians, their technology, and their means of survival in the wilderness. (JD)

RESEARCH NEEDS

AN - EJ176552
CHAN - SP506786
TI - Forecast for Research in Outdoor Education
AU - Vogl, Robert; Vogl, Sonia
AB - A status report on research in outdoor education needs to be written, including the establishment of research priorities, strategies to upgrade both research quality and researcher skills, and strategies for using research to improve outdoor education programs. (MJ5)

SCIENCE ACTIVITIES

AN - EJ154238
CHAN - SE518565
TI - SNOWSHOEING: INVITATION TO THE OUTDOORS
AU - PERLUT, SUSAN
AB - OUTLINES BRIEF HISTORY OF THE USE OF SNOWSHOES. SUGGESTS AND DESCRIBES ACTIVITIES SUCH AS THE CONSTRUCTION OF SNOWSHOES. PROPER USE OF SNOWSHOES. TOPICS FOR DISCUSSION. AND OUTDOOR LESSONS. (CS)
AN - EJ154239
CHAN- SES18566
TI - FUN WITH FOOD WEBS
AU - SMITH, KARL D.
SO - SCIENCE AND CHILDREN: 14: 5: 22-23 (FEB 1977)
CIJE77
IT - *ECOLOGY; *EDUCATIONAL GAMES; *ELEMENTARY SCHOOL SCIENCE;
*ENVIRONMENTAL EDUCATION; ELEMENTARY EDUCATION; INSTRUCTIONAL
MATERIALS; *OUTDOOR EDUCATION; PHYSICAL ACTIVITIES; *SCIENCE
ACTIVITIES; SCIENCE EDUCATION
AB - EXPLAINS AN UPPER ELEMENTARY GAME OF TAG THAT ILLUSTRATES ENERGY
FLOW IN FOOD WEBS USING CANDY BARS AS FOOD SOURCES. A FOLLOW-UP
FIELD TRIP TO A RIVER AND FIVE LANGUAGE ARTS PROJECTS ARE ALSO
SUGGESTED. (CS)

AN - EJ155879
CHAN- SES18738
TI - TERRITORIALITY IN THE RED-WINGED BLACKBIRD
AU - NEWHOUSE, CHRIS
SO - AMERICAN BIOLOGY TEACHER: 39: 3; 168-170 (MAR 1977)
CIJE77
IT - *ANIMAL BEHAVIOR; *BIOLOGY; COLLEGE SCIENCE; *HIGHER EDUCATION;
INSTRUCTION; *OUTDOOR EDUCATION; *SECONDARY EDUCATION; *SCIENCE
ACTIVITIES; SECONDARY SCHOOL SCIENCE
ST - ORNITHOLOGY
AB - REPORTS FINDINGS ON RESEARCH IN RED-WINGED BLACKBIRD
TERRITORIALITY AND DESCRIBES THE EDUCATIONAL POTENTIAL OF USE OF
SIMILAR STUDIES IN THE CLASSROOM. TERRITORIAL MAPPING AND
OBSERVATIONAL TECHNIQUES ARE EXPLAINED. (CS)

AN - EJ165254
CHAN- AA526362
TI - Kids! Be an Explorer on the Earth Squad
AU - WOLF, NANCY A.
SO - INSTRUCTOR: 86: 8: 72.376.78.128.133 (APR 1977)
CIJE78
IT - *ENVIRONMENTAL EDUCATION: *ECOLOGY; *OUTDOOR EDUCATION; *SCIENCE
ACTIVITIES: *STUDENT PROJECTS
AB - A special tear-out-and-duplicate section provides activities for
increasing environmental awareness. (RW)

AN - EJ165602
CHAN- SES19914
TI - A POND PROJECT FOR JUNIOR HIGH SCHOOL STUDENTS
AU - DAVID, D.
CIJE78
IT - *COMMUNITY INVOLVEMENT: *EDUCATIONAL FACILITIES: ECOLOGY;
ENVIRONMENTAL EDUCATION; *FIELD INSTRUCTION: JUNIOR HIGH SCHOOL
STUDENTS; *OUTDOOR EDUCATION: *STUDENT PROJECTS: *SCIENCE
EDUCATION: *SCIENCE PROJECTS
AB - DESCRIBED IS HOW A NEGLECTED POND WAS TRANSFORMED INTO A USEFUL
STUDY AREA THROUGH THE EFFORTS OF LOCAL JUNIOR HIGH SCHOOL
STUDENTS AND THE COMMUNITY. A CHRONOLOGY OF EVENTS IN THE
RESTORATION OF THE POND IS INCLUDED, ALONG WITH THE NAMES OF
RESOURCE PERSONNEL AND ORGANIZATIONS. (MA)
A Partnership in Outdoor Science Education

Maryland school district and the Smithsonian Institution have become partners in outdoor science education. Working together, they have developed a series of activities for students in grades 1-8 that are an integrated part of a total unified science curriculum, meeting the need of teachers and students alike.

Building and Operating an Observation Beehive

Describes the construction and observation of beehives.

Biology in the School Lot

Reviews the Outdoor Biology Instructional Strategies (OBIS) Food Chain Game.

The Basic Purpose of the Process Approach Discussed in This Presentation Is to Involve Teachers, Students, and Ultimately the Community in Problem Solving Situations Which Can Lead to Attitude Changes about the Management of the Environment.
AN - EJ160835
CHA N- RC502431
TI - I HEARD OF AN EASY CREDIT
AU - OLSEN: DWayne G.
SO - JOURNAL OF OUTDOOR EDUCATION: 11; 2: 8-10 (1977)
CIJE77
IT - COOPERATING TEACHERS: ELEMENTARY SCHOOL CURRICULUM: EDUCATIONAL OPPORTUNITIES: OUTDOOR EDUCATION: PRESERVICE EDUCATION:
TEACHER EDUCATION
AB - COOPERATING TEACHERS WHO PROVIDE OPPORTUNITIES FOR EDUCATION STUDENTS TO PARTICIPATE IN OUTDOOR EDUCATION UNITS WILL HAVE ENRICHED THEIR OUTDOOR EDUCATION UNIT WITH THE KNOWLEDGE, TALENTS, AND SKILLS OF A VERY ENTHUSIASTIC GROUP OF FUTURE TEACHERS. (JC)

AN - EJ163232
CHAN- SP505853
TI - ECOSCENE
AU - DAVIS: WILLIAM W.: MANAR: HUGH E.
SO - PARKS AND RECREATION: 12; 1: 26-8.68 (JAN 1977)
CIJE77
ST - EIGHTEENTH CENTURY LIVING
AB - AN ELEMENTARY SCHOOL PROGRAM BASED ON THE PRINCIPLE THAT LEARNING ABOUT LIFE IN THE EIGHTEENTH CENTURY, WHEN MAN'S DEPENDENCE ON HIMSELF AND THE LAND WAS MORE DIRECT, CAN LEAD TO A BETTER UNDERSTANDING OF THE LIFE-STYLES OF TODAY. (UD)

AN - EJ174189
CHAN - RC502722
TI - Exploring a Vacant Lot: An Outdoor Education Teaching Technique
AU - Rillo: Thomas J.
SO - Communicator: 9: 1: 41-6 (F-Win 1977)
CIJE78
ST - VACANT LOTS
AB - TEN SPECIFIC ACTIVITIES AIMED AT STUDYING SOIL IN A VACANT LOT ARE PRESENTED ALONG WITH A DISCUSSION OF NECESSARY/USEFUL EQUIPMENT AND AN EXEMPLARY LESSON PLAN. (JC)

AN - EJ174912
CHAN - AA527373
TI - From the Mountains to the Classrooms
AU - EDER: William J.
CIJE78
ST - LIVE. LEARN AND TEACH PROGRAM
AB - THE FRIGHT AND UNCERTAINTY THEY THEMSELVES FELT IN UNFAMILIAR PLACES AND SITUATIONS ENABLE TEACHERS TO TAKE BACK TO THEIR CLASSROOMS AN EMPATHY WITH STUDENTS WHO ARE ILL-ADJUSTED TO SCHOOL. DESCRIBES THE LIVE, LEARN & TEACH PROGRAM (EJ 144 148) DEVELOPED BY THE UNIVERSITY OF NEW HAMPSHIRE FOR STIMULATING TEACHERS' INTEREST IN CHANGING FIXED PATTERNS OF TEACHING. (EDITOR/RK)
URBAN STUDIES

AN - EJ166301
CHAN - RC502572
TI - Reading the Cultural Landscape. Theme Address of the Taft Campus 25th Anniversary and Spring 1977 Colloquium. Northern Illinois University. April 15-17. 1977
AU - Hopkins. Chuck
AB - Defining the "cultural landscape" as "any landscape which has experienced a change brought about by man, either directly or indirectly", the article discusses various goals, objectives, targets, and strategies which are relevant to urban studies from an academic approach. (NO)

AN - EJ166502
CHAN - RC502572
TI - Reading the Urban Landscape: The Shopping Centre as an Educational Resource
AU - VandenHazel. Besse J.
ST - "Shopping Centres"
AB - Shopping centres can offer many educational surprises to both students and teachers. A shopping centre study can provide the students with an opportunity to increase their understanding of the role played by these centres in their community. (NO)

AN - EJ166736
CHAN - SP505972
TI - The Urban Recreation Study: Doing It Right
AU - Maguire. Meg
ST - "Bureau of Outdoor Recreation"
AB - Certain underlying assumptions of the urban recreation study conducted by the Bureau of Outdoor Recreation are highlighted, and recommendations are suggested for the study's shortcomings. (NM)
AN - EJ168801
CHAN- SP506259
TI - Project Adventure
AU - Little, Rufus
IT - Athletic Equipment; *Educational Innovation; *Group Activities;
*Group Unity; *Outdoor Education; *Physical Education; Self
Concept; Teaching-Styles; Urban Schools
AB - Using trees, open fields, empty lots, buildings, or whatever is
available near the school, students experience the challenge and
group spirit associated with wilderness schools. (JD)

AN - EJ174180
CHAN- RC502713
TI - Shed a Tear for Suicide Hill
AU - Holander, Allen
SO - Communicator: 9: 1: 2-4 (F-Win 1977)
IT - Discovery Learning; *Outdoor Education; *Urbanization
ST - *Experiential Learning
AB - Emphasizing the importance of open, non-structured space, this
article asserts that it is in using these spaces to act out their
fantasies that children bring life and meaning to the worlds of
literature and legends and learn to experience the spice of
danger, adventure, and mystery. (JC)

AN - EJ176328
CHAN- SE521169
TI - Manhattan Country School: An Urban School in the Catskills
AU - Southern, Jane; Plummer, James
SO - Nature Study: 31: 3: 5-6 (1978)
IT - Biological Sciences; Curriculum Design; *Elementary Education;
*Environmental Education; *Farm Visits; *Instructional Programs;
Natural Resources; *Outdoor Education; Program Descriptions;
Science Education
AB - This school integrates an outdoor, farm experience with an urban
school curriculum. Elementary students spend increasing lengths
of time working on a country farm as a mandatory requirement.
Activities include farm chores, nature hikes, household chores,
and practical crafts. Students come from a wide range of
backgrounds and incomes. (MA)

AN - EJ179052
CHAN- SE520274
TI - City Parks: More Than Meets The Eye
AU - Vandervoorst, Frances S.
IT - *Elementary Secondary Education; *Environmental Education;
*Learning Activities; Natural Resources; *Outdoor Education;
*Parks; *Science Education; Urban Environment; Urban Schools;
Values
AB - Urban school districts are discovering city parks as a place for
students to learn about their environment through biological
investigation. Outlined are some of the activities that are
appropriate for students of various grade levels working in a
park setting. (MA)
PREVIOUS BIBLIOGRAPHIES

Outdoor Education, A Selected Bibliography. (ED 037 285)

Outdoor Education, A Selected Bibliography. Supplement No. 1 (ED 035 702)

Outdoor Education, A Selected Bibliography (with ERIC Abstracts). ERIC/CRESS
Supplement No. 2 (ED 073 093)

Outdoor Education, A Selected Bibliography (with ERIC Abstracts). ERIC/CRESS
Supplement No. 3 (ED 087 582)

Outdoor Education, A Selected Bibliography (with ERIC Abstracts). ERIC/CRESS
Supplement No. 4 (ED 101 907)

Outdoor Education, A Selected Bibliography (with ERIC Abstracts). ERIC/CRESS
Supplement No. 5 (ED 188 306)

Outdoor Education, A Selected Bibliography (with ERIC Abstracts). ERIC/CRESS
Supplement No. 6 (ED 135 971)

Outdoor Education, A Selected Bibliography (with ERIC Abstracts). ERIC/CRESS
Supplement No. 7 (ED 149 884)
For information about standing order collections nearest you, contact any of the ERIC Clearinghouses listed below. The Clearinghouses contain all the ERIC Collection in their respective Clearinghouses; they are not restricted to holdings only in their scope areas.

CURRENT ERIC CLEARINGHOUSES AND THEIR SCOPES

**ERIC Clearinghouse on Career Education**
Center for Vocational Education
Ohio State University
1960 Kenny Road
Columbus, OH 43210
(614) 486-3566

The Clearinghouse on Career Education is responsible for the areas of adult and continuing career and vocational-technical education; occupational and human development through the retirement period; life roles including leisure roles; and local, state, national and international career education policy.

**ERIC Clearinghouse on Counseling and Personnel Services**
Room 2108, School of Education Building, U of M
Ann Arbor, MI 48104
(313) 764-9492

ERIC/CAPS is responsible for preparation, practice, and supervision of counselors at all educational levels and in all settings.

**ERIC Clearinghouse on Early Childhood Education**
College of Education
University of Illinois
Urbana, IL 61801
(217) 333-1386

ERIC/ECE is responsible for research documents on the physiological, psychological, educational, and cultural development of children from birth through the primary grades with focus on theory related to the development of young children.

**ERIC Clearinghouse on Educational Management**
University of Oregon
Eugene, OR 97403
(503) 687-6456

ERIC/CEA is responsible for the areas of leadership and management on the elementary and secondary levels; structure of educational organizations; administration, preparation of administrators; processes of administration; methods and varieties of organization; sites, buildings and equipment for education of all levels.

**ERIC Clearinghouse on the Handicapped and Gifted Children**
CEC Information Center on Exceptional Children
1920 Association Drive
Reston, VA 22091
(703) 620-3660

ERIC/CEC is responsible for documents concerning children and youth who require special services. Included are the physically handicapped; visually handicapped; mentally handicapped; speech handicapped; learning disabilities such as behavioral, psychomotor, and communication disorders; and the gifted.
ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, Suite 630
Washington, DC 20036 (202) 296-2597

ERIC/CHE is responsible for various subjects relating to colleges and university students, problems, conditions, and management.

ERIC Clearinghouse on Information Resources
Syracuse University, School of Education
Huntington Hall
Syracuse, NY 13202 (315) 423-3640

The Clearinghouse is responsible for collecting information concerning print and non-print learning resources such as libraries and the professional activities of librarians and information specialists. Included are educational media materials concerning television, films, radio, microforms, and computers.

ERIC Clearinghouse for Junior Colleges
96 Powell Library, University of California
Los Angeles, CA 90024 (213) 825-3931

The Clearinghouse is responsible for documents concerning public and private community junior colleges.

ERIC Clearinghouse on Languages and Linguistics
1611 N. Kent Street
Arlington, VA 22209

The Clearinghouse is responsible for languages and linguistics; teacher training and qualifications for teaching languages; languages sciences; and uncommonly taught languages, including English for speakers of other languages.

ERIC Clearinghouse for Reading and Communication Skills
National Council of Teachers of English
1111 Kenyon Road
Urbana, IL 61801 (217) 328-3870

ERIC/RCS is responsible for documents concerning reading, English, and communication Skills; research in reading, writing, speaking, and listening, identification of reading problems; speech communication; and speech sciences and theater. Preparation of instructional staff and related personnel in these areas are covered.

ERIC Clearinghouse on Rural Education and Small Schools
Box 3AP
New Mexico State University
Las Cruces, NM 88003 (505) 646-2623

ERIC/CRESS is responsible for educational information concerning Mexican Americans, migrants, American Indians, outdoor education, rural education, and small schools.
ERIC Clearinghouse on Science, Mathematics, and Environmental Education
400 Lincoln Tower
Ohio State University
Columbus, OH 43210
(614) 422-6717

ERIC/SMEAC is responsible for all levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning. Preservice and inservice teacher education and supervision are also included.

ERIC Clearinghouse for Social Studies/Social Science Education
855 Broadway
Boulder, CO 80302
(303) 492-8434

ERIC/CHESS is responsible for all levels of social studies and social science.

ERIC Clearinghouse on Teacher Education
One Dupont Circle
Suite 616
Washington, DC 20036
(202) 293-7280

The Clearinghouse on Teacher Education is responsible for information pertaining to school personnel at all levels except for areas covered by Educational Management Clearinghouse. They are also responsible for documents written under Title XI NOEA Institutes when these documents are not covered under the speciality of some other ERIC Clearinghouse.

ERIC Clearinghouse on Tests, Measurements, and Evaluation
Education Testing Service
Princeton, NJ 08540
(609) 921-9000

ERIC/TM is responsible for documents pertaining to tests, evaluation procedures and the application of tests and measurements.

ERIC Clearinghouse on Urban Education
Teachers College, Box 40
Columbia University
New York, NY 10027
(212) 678-3437

ERIC/IRCD is responsible for information of the effects on disadvantaged experiences and environments; the performance of disadvantaged youth, compensatory programs; material related to economic and ethnic discrimination; and segregation, and desegregation, and integration in education.
**IMPORTANT INSTRUCTIONS**

- **ORDER BY ED NO. (6 digits)**
  - See Resources in Education (RIE)
- **SPECIFY EITHER:**
  - Microfiche (MF)
  - Paper Copy (HC)
- **ENTER UNIT PRICE**
  - (See Below)
- **INCLUDE POSTAGE**
  - Note charge to expedite delivery within the United States only (see below)

**UNIT PRICE SCHEDULE**

### MICROFICHE (MF)

<table>
<thead>
<tr>
<th>NUMBER FICHE EACH ED #</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 5 (up to 480 pages)</td>
<td>$ .83</td>
</tr>
<tr>
<td>6 (481-576 pages)</td>
<td>1.00</td>
</tr>
<tr>
<td>7 (577-672 pages)</td>
<td>1.16</td>
</tr>
<tr>
<td>8 (673-768 pages)</td>
<td>1.33</td>
</tr>
<tr>
<td>Each additional microfiche (additional 96 pages)</td>
<td>$ .167</td>
</tr>
</tbody>
</table>

### PAPER COPY (HC)

<table>
<thead>
<tr>
<th>NUMBER PAGES EACH ED #</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 25</td>
<td>$1.67</td>
</tr>
<tr>
<td>26 to 50</td>
<td>2.06</td>
</tr>
<tr>
<td>51 to 75</td>
<td>3.50</td>
</tr>
<tr>
<td>76 to 100</td>
<td>4.67</td>
</tr>
<tr>
<td>Each additional</td>
<td>1.34</td>
</tr>
</tbody>
</table>

**ORDER FORM**

<table>
<thead>
<tr>
<th>ED NUMBER</th>
<th>NO. OF PAGES</th>
<th>NO. OF COPIES</th>
<th>UNIT PRICE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UNIT PRICE**

- **TAX EXEMPT NO.**
- **VA RESIDENTS ADD 4% SALES TAX**
- **POSTAGE**
- **DEPOSIT ACCT. NO.**
- **TOTAL**

**CHART FOR DETERMINING UNITED STATES POSTAGE**

<table>
<thead>
<tr>
<th>1st CLASS POSTAGE FOR</th>
<th>4TH CLASS POSTAGE FOR TOTAL MF OR HC PAGES INDICATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 lb.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>75 or fewer MF or HC</td>
<td>151-225</td>
</tr>
<tr>
<td>Pages</td>
<td>226-300</td>
</tr>
<tr>
<td>MF or HC</td>
<td>301-375</td>
</tr>
<tr>
<td>Pages</td>
<td>376-450</td>
</tr>
<tr>
<td>MF or HC</td>
<td>451-525</td>
</tr>
<tr>
<td>Pages</td>
<td>527-605</td>
</tr>
<tr>
<td>MF or HC</td>
<td>617-705</td>
</tr>
<tr>
<td>Pages</td>
<td>700-800</td>
</tr>
<tr>
<td>MF or HC</td>
<td>801-900</td>
</tr>
<tr>
<td>Pages</td>
<td>900-1000</td>
</tr>
</tbody>
</table>

**CHART FOR DETERMINING UPS CHARGES**

<table>
<thead>
<tr>
<th>1 lb.</th>
<th>2 lbs.</th>
<th>3 lbs.</th>
<th>4 lbs.</th>
<th>5 lbs.</th>
<th>6 lbs.</th>
<th>7 lbs.</th>
<th>8 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 or Fewer MF or HC Pages</td>
<td>151-225 MF or HC Pages</td>
<td>226-300 MF or HC Pages</td>
<td>301-375 MF or HC Pages</td>
<td>376-450 MF or HC Pages</td>
<td>451-525 MF or HC Pages</td>
<td>527-605 MF or HC Pages</td>
<td>617-705 MF or HC Pages</td>
</tr>
</tbody>
</table>

| Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed | Not to Exceed |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| $ 1.04        | $ 1.34        | $ 1.64        | $ 1.94        | $ 2.23        | $ 2.53        | $ 2.83        | $ 3.13        | $ 3.43        | $ 3.73        | $ 4.03        |

*Expedited delivery is available by requesting UPS delivery and including payment. Charges vary depending upon total weight of order and final destination. The chart below gives maximum charges for this service from Arlington, Virginia. It will be the customers' responsibility to calculate the correct amount, or to send in the maximum amount. Overpayments will be refunded upon request.*