

DOCUMENT RESUME

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TITLE HOW TO CONDUCT A SEARCH THROUGH ERIC.  
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DESCRIPTORS EDUCATIONAL RESEARCH, EDUCATIONAL RESOURCES,  
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\*INSTRUCTIONAL MATERIALS, \*RESEARCH SKILLS,  
\*RESEARCH TOOLS, \*SEARCH STRATEGIES, TEACHER  
EDUCATION

ABSTRACT

THIS 24-PAGE BOOKLET IS THE THIRD COMPONENT IN A SET OF INSTRUCTIONAL MATERIALS RELATED TO THE PURPOSES, ORGANIZATION, AND USES OF ERIC (EDUCATIONAL RESOURCES INFORMATION CENTER). THE BOOKLET IS DESIGNED TO INSTRUCT THE READER IN WAYS OF USING THE COMPREHENSIVE ERIC INDEXING SYSTEM IN THE SEARCH FOR INFORMATION OR MATERIALS RELEVANT TO HIS NEEDS. THE READER STARTS WITH A SPECIFIC PROBLEM (HOW TO PLAN A NATURE CENTER) AND, GUIDED BY A SERIES OF QUESTIONS AND ILLUSTRATIONS, PROGRESSES THROUGH A STEP-BY-STEP SEARCH FOR DOCUMENTS RELATED TO THIS PROBLEM. IN THE PROCESS OF COMPLETING THIS SEARCH, THE READER IS INTRODUCED TO ERIC'S THREE BASIC RESEARCH TOOLS (RESEARCH IN EDUCATION, CURRENT INDEX TO JOURNALS IN EDUCATION, AND THE ERIC THESAURUS) AND SIX BASIC STEPS IN CONDUCTING AN EFFECTIVE AND EFFICIENT SEARCH. SUPPLEMENTARY INFORMATION IS INCLUDED TO ANTICIPATE PROBLEMS WHICH MAY BE ENCOUNTERED WHEN THE READER ATTEMPTS HIS OWN SEARCHES FOR EDUCATIONAL INFORMATION. (JES)

ED0 36499

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE  
OFFICE OF EDUCATION

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HOW  
TO CONDUCT  
A SEARCH THROUGH ERIC

Published by  
ERIC Clearinghouse on Teacher Education  
Number One Dupont Circle, N. W.  
Washington, D. C. February 1970

SP003611

## AVAILABILITY

"How to Conduct a Search Through ERIC" is the third part of the instructional materials on the Educational Resources Information Center produced by the ERIC Clearinghouse on Teacher Education.

A very limited number of copies of this booklet have been produced, because the instructional materials are developmental. A pamphlet is available which describes the materials, and which includes information about how to obtain them. Write:

ERIC Clearinghouse on Teacher Education  
Number One Dupont Circle, N. W.  
Washington, D.C. 20036

"How to Conduct a Search Through ERIC" will be processed for appearance in Research in Education and will be available in microfiche and hardcopy in early summer, 1970.

## ACKNOWLEDGMENTS

The ERIC Clearinghouse on Teacher Education would like to express its appreciation to Lee G. Burchinal, acting assistant commissioner for the Office of Information Dissemination, U.S. Office of Education, for his assistance in the conceptualization of and his sustained interest in the project to develop instructional materials on ERIC.

For their contributions to the planning and development of the materials, special acknowledgment is due members of the Clearinghouse staff: Joel L. Burdin, director and principal investigator of the project; Linda L. Levy, project coordinator; and Dorothy Mueller, operations coordinator; Lorraine Poliakoff and Judy Sharff, information analysts; and Joost Yff, assistant director.

The Clearinghouse wishes to acknowledge the help of its Project Advisory Group: George H. Grimes, supervisor, Curriculum Laboratories, Detroit Public Schools; Francine Kroner, doctoral candidate, Case Western Reserve University; Phil Lange, professor, Teachers College, Columbia University; William H. Roe, dean, School of Education, University of Connecticut; and Molly Templeton, assistant librarian, National Education Association (NEA).

The Clearinghouse also wishes to thank its sponsors, the American Association of Colleges for Teacher Education; the National Commission on Teacher Education and Professional Standards, NEA; and the Association for Student Teaching, a national affiliate of NEA, for their continued support.

## INTRODUCTION

This booklet is designed to help you understand how to do a search in the ERIC (Educational Resources Information Center) system.

In reading "How to Conduct a Search Through ERIC" you will be taken through the actual steps of a search to find a document on a specific problem. Progress through the guide will depend upon your answering a series of questions designed to help you on your way.

The tone of the guide is intentionally light in an effort to reach the widest possible audience with subject matter that might otherwise seem unnecessarily complex. Inspiration for the approach used is due in part to the programmed instructional book Preparing Instructional Objectives by Robert F. Mager.

Because the booklet is developmental, we are anxious to receive your reactions and suggestions as well as those of your colleagues. Please feel free to reproduce the booklet; it is designed for this purpose.

We are hopeful that once you have read the booklet, it might serve as a useful guide whenever you wish to find information in ERIC.

ERIC Clearinghouse on  
Teacher Education

Joel L. Burdin, Director

## HOW TO CONDUCT A SEARCH THROUGH ERIC

Your school wishes to implement its concern about the preservation of the environment by undertaking a special educational project. Having agreed that to create an awareness of environment might be a first step, your school decides to work with the community to establish a nature center, a place where students as well as other citizens can learn first-hand about their environment. As a member of the committee to plan the nature center, you need information on what steps to take, but...

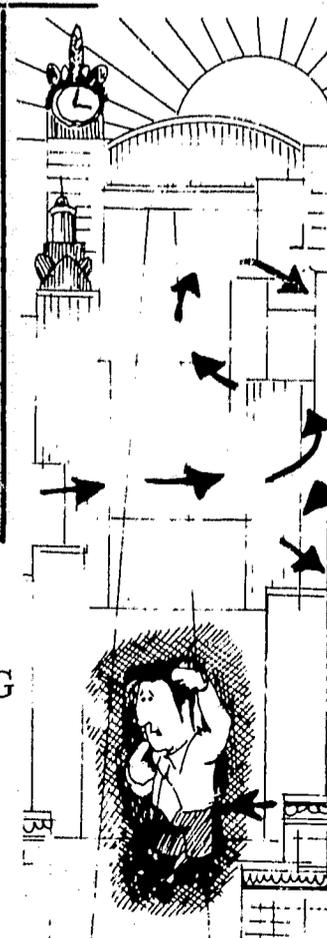
Where would you go to find help?

- A. Your library's card catalogue
- B. The National Audubon Society
- C. Your County Board or City Councilman
- D. ERIC

Check your answers:

- A. Good possibility, but perhaps you'd like another.
- B. Good idea, but we'll show you Audubon's articles, and a way to find others, too.
- C. But they'll want your detailed plan.
- D. ERIC?

FROM TIME TO TIME, YOU WILL BE GIVEN THE OPTION OF TAKING SHORT CUTS THROUGH THIS PAMPHLET OR RETURNING TO PREVIOUS SECTIONS. REMEMBER: ALWAYS FOLLOW INSTRUCTIONS AND/OR CONTINUE TURNING PAGES. NOW TURN TO THE NEXT PAGE.



ERIC can help you.

HOW CAN YOU GET IN TOUCH WITH HIM?

Many libraries will enable you to talk with him. The reference desk of your library is the switchboard. The number you dial is ERIC. In order to connect you, the librarian will lead you to at least three references.

These should include:

THESAURUS OF ERIC DESCRIPTORS (ERIC'S dictionary)  
the key to the index terms in the ERIC system

RESEARCH IN EDUCATION (RIE, a monthly publication)  
with indexes to and summaries of documents

CURRENT INDEX TO JOURNALS IN EDUCATION (CIJE,  
a monthly publication) with indexes of journal articles  
and annotations when necessary

What would you do next?

- A. Forget about the nature center.
- B. Take a coffee break.
- C. Prepare to camp in the library.
- D. READ ON.

Check your answers:

- A. Don't quit yet.
- B. Avoidance behavior.
- C. It really isn't that bad.
- D. Don't forget how great that nature center would be.

Entries from RIE and from CIJE will appear similar

to the following:

From:

RESEARCH IN EDUCATION

ED 030 817

AC 004 715

Ferver, Jack C.

**Needed: An Urban Extension Service; Trends, Problems and Possibilities under Title I of the Higher Education Act of 1965.**

Pub Date 69

Note—26p.; A Paper presented at the Regional Title I Conference (St. Louis, Mo., March 27-28, 1969).

Available from—Wisconsin Title I HEA Administrator, 432 N. Lake St., Madison, Wisconsin, 53706

EDRS Price MF-\$0.25 HC-\$1.40

Descriptors—\*Community Service Programs, Disadvantaged Groups, Financial Support, Personnel Needs, Program Evaluation, \*Program Improvement, \*Universities, \*Urban Extension

Identifiers—\*Higher Education Act of 1965

Title I of the Higher Education Act of 1965 has demonstrated that institutions of higher learning can make an important contribution to the solution of community problems through community service projects. But there are limitations, the greatest of which are lack of adequate program funds and mounting program needs, particularly for programs relating to the problems of the poor in our central cities. The great potential is in developing Title I into an Urban Extension Service with organizational linkages between federal, state, and urban governments, urban citizens, and urban-grant colleges and universities. (author/pt)

From:

CURRENT INDEX TO  
JOURNALS IN EDUCATION

EJ 010 163 030 EA 500 220

**Its Make-Believe Setting Is the Only Froth About Meyers Cutler, Marilyn H.,**  
*Amer Sch Board J* v157 n6, pp23-26, Dec '69

\*School Design, \*School Buildings,  
\*School Environment, \*Flexible  
Classrooms, \*Space Utilization,  
Elementary Schools, Architectural  
Elements, []

Discusses physical and educational design considerations in South Lake Tahoe's new Meyers Elementary School. (DE)

EJ 010 164 030 HE 500 559

**Designing a Campus Signage System ,**  
*Coll Univ Bus* v47 n5, pp79-84, Nov '69

\*Graphic Arts, \*Signs, \*Design Needs,  
\*Visual Arts, \*Communications, Interior  
Space, Architectural Programing,  
Campuses, [\*Architectural Signage]

Explains a new system that combines architectural and graphic skills to direct, inform, and control the increasing numbers of people who attend various campus activities. Article was prepared by Interior Space Designers (ISD), Incorporated of New York. (WM)

Compare and contrast the two samples.

Similarities include:

Differences include:

Check your answers:

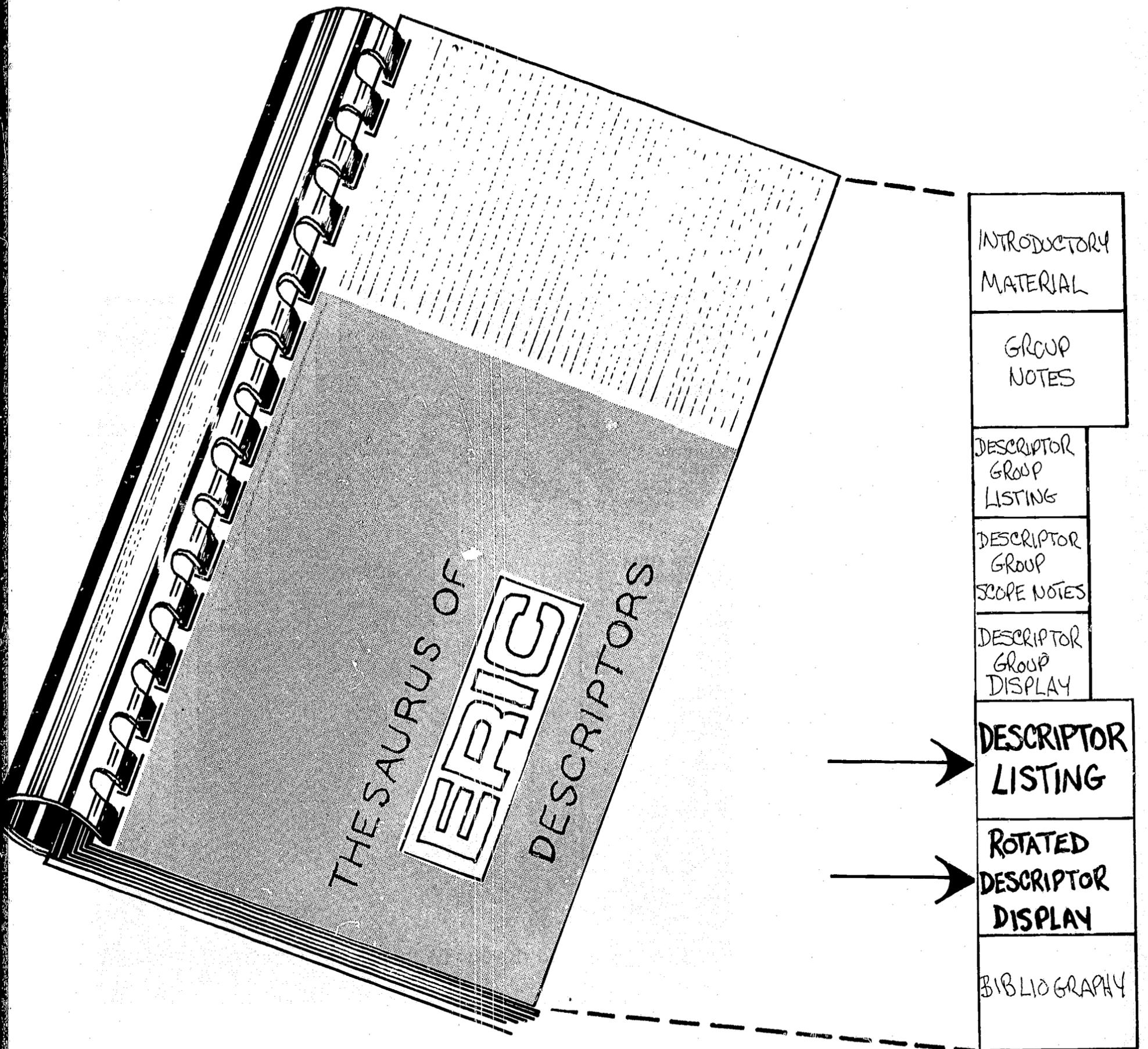
For similarities, you could have observed:

- EACH ENTRY IS PRECEDED BY NUMBERS
- BOTH SAMPLE PAGES UTILIZE UPPER AND LOWER CASE TYPE
- BOTH LIST TITLES AND DESCRIPTORS

For differences, you could have noted:

- THE RIE HAS AN "ED" NUMBER; THE CIJE HAS "EJ" NUMBERS
- THE RIE OFFERS A SUMMARY (ABSTRACT); THE CIJE HAS ANNOTATIONS





IF YOU HAVE THE BOOKS, FIND THE ONE THAT LOOKS LIKE THIS.

LOOK AT THE SECTIONS SHOWN BY THE ARROWS.

These sample pages represent the two sections of the  
 THESAURUS which will be the most helpful to you.

### ROTATED DESCRIPTOR DISPLAY

<b>ACTION PROGRAMS</b>	COMMUNITY ACTION (COMMUNITY) COMMUNITY AGENCIES (PUBLIC) COMMUNITY ANTENNAS COMMUNITY ATTITUDES COMMUNITY BENEFITS
<b>BLACK</b>	COMMUNITY COMMUNITY CHANGE COMMUNITY CHARACTERISTICS COMMUNITY COLLEGES COMMUNITY CONSULTANT PROGRAMS COMMUNITY CONSULTANTS COMMUNITY COOPERATION
<b>SCHOOL</b>	COMMUNITY COOPERATION COMMUNITY COORDINATION COMMUNITY COORDINATORS COMMUNITY DEVELOPMENT COMMUNITY EDUCATION COMMUNITY HEALTH COMMUNITY HEALTH SERVICES COMMUNITY INFLUENCE COMMUNITY INVOLVEMENT COMMUNITY LEADERS COMMUNITY MIGRANT PROJECTS COMMUNITY ORGANIZATIONS
<b>PLANNED</b>	COMMUNITY COMMUNITY PLANNING COMMUNITY PROBLEMS COMMUNITY PROGRAMS
<b>SCHOOL</b>	COMMUNITY PROGRAMS COMMUNITY RECREATION LEGISLATION COMMUNITY RECREATION PROGRAMS COMMUNITY RELATIONS
<b>POLICE</b>	COMMUNITY RELATIONSHIP
<b>SCHOOL</b>	COMMUNITY RELATIONSHIP COMMUNITY RESOURCES COMMUNITY RESPONSIBILITY COMMUNITY ROLE COMMUNITY ROOMS COMMUNITY SCHOOL DIRECTORS COMMUNITY SCHOOLS COMMUNITY SERVICE PROGRAMS COMMUNITY SERVICES COMMUNITY SIZE
<b>SOUTHERN</b>	COMMUNITY COMMUNITY STUDY COMMUNITY SUPPORT COMMUNITY SURVEYS COMMUNITY ZONING

### DESCRIPTOR LISTING

**ACTION LEARNING**  
 USE ACTIVITY LEARNING  
**ACTION PROGRAMS (COMMUNITY)**

SN IMPROVEMENT SPONSORED BY COMMUNITY  
 UF ACTION PROJECTS  
 BT COMMUNITY PROGRAMS  
 RT COMMUNITY ACTION  
 STATE PROGRAMS

**ACTION PROJECTS**  
 USE ACTION PROGRAMS (COMMUNITY)

**ACTION RESEARCH**

BT RESEARCH  
 RT EVALUATION  
 EVALUATION METHODS  
 EVALUATION TECHNIQUES  
 METHODS RESEARCH  
 OPERATIONS RESEARCH  
 PROGRAM IMPROVEMENT  
 SELF EVALUATION

**ACTIVISM**

BT POLITICAL SCIENCE

**ACTIVITIES**

NT AFTER SCHOOL ACTIVITIES  
 ART ACTIVITIES  
 CLASS ACTIVITIES  
 COCURRICULAR ACTIVITIES

The first portion is called the ROTATED DESCRIPTOR  
 DISPLAY. CIRCLE the word that appears most frequently.

The second portion is called the DESCRIPTOR LISTING.  
 CIRCLE the same word that you did previously. It will be in  
 dark print, all CAPS.

Now that you've examined the tools, you are ready to use them.

CLOSE THE BOOKS -- if you have them -- and RE-OPEN THE NATURE CENTER QUESTION.

The ERIC publications will provide you with all the equipment you need to discover ways to establish your center, but you will have to do some THINKING first.

You begin by asking yourself the question.

HOW CAN I HELP MY SCHOOL AND COMMUNITY ESTABLISH A NATURE CENTER?

Select the most important words in your question.

- A. HELP-HELP-HELP
- B. SCHOOL, COMMUNITY
- C. NATURE CENTER
- D. I or MY

Check your answers:

- A. WE'RE TRYING.
- B. O.K., but a bit general. You could have been more specific.
- C. GOOD!
- D. TOO PERSONAL.

Now you've selected a word in your language.

OPEN the THESAURUS to the ROTATED DESCRIPTOR

DISPLAY for a quick check to see if ERIC shares your vocabulary.

KEEP YOUR FINGERS CROSSED.

ROTATED DESCRIPTOR DISPLAY

DEVELOPING NATIONS  
NATURAL RESOURCES  
NATURAL SCIENCES  
NATURE CENTERS  
NAVAHO  
NAVIGATION

ACHIEVEMENT NEED  
AFFILIATION NEED  
NEED GRATIFICATION  
STATUS NEED  
NEEDLE TRADES  
NEEDS

CHILDHOOD NEEDS  
CONSTRUCTION NEEDS  
DESIGN NEEDS  
EDUCATIONAL NEEDS  
EVALUATION NEEDS  
FINANCIAL NEEDS  
HEALTH NEEDS  
HOUSING NEEDS  
INDIVIDUAL NEEDS  
INFORMATION NEEDS  
MANPOWER NEEDS  
PERSONNEL NEEDS  
PHYSICAL DESIGN NEEDS  
PSYCHOLOGICAL NEEDS  
PSYCHOLOGICAL DESIGN NEEDS  
RESEARCH NEEDS  
STUDENT NEEDS

NEGATIVE ATTITUDES  
NEGATIVE FORMS (LANGUAGE)  
NEGATIVE PRACTICE  
NEGATIVE REINFORCEMENT  
NEGOTIATION AGREEMENTS  
COLLECTIVE NEGOTIATION  
NEGOTIATION IMPASSES  
NEGRO ACHIEVEMENT  
NEGRO ATTITUDES  
NEGRO BUSINESSES  
NEGRO COLLEGES  
NEGRO CULTURE  
NEGRO DIALECTS  
NEGRO EDUCATION

ROTATED DESCRIPTOR DISPLAY

CEBUANO  
CEILINGS  
CELL THEORY  
CEMENT INDUSTRY  
CENSORSHIP  
CENSUS FIGURES  
INSTRUCTOR CENTERED TELEVISION  
AFTER SCHOOL CENTERS  
ARTS CENTERS  
AUDIOVISUAL CENTERS  
CHILD CARE CENTERS  
CHILD DEVELOPMENT CENTERS  
CONTINUING EDUCATION CENTERS  
COUNSELING CENTERS  
CULTURAL CENTERS  
CURRICULUM STUDY CENTERS  
DEMONSTRATION CENTERS  
EDUCATION SERVICE CENTERS  
GUIDANCE CENTERS  
HEALTH OCCUPATIONS CENTERS  
INFORMATION CENTERS  
INSTRUCTIONAL MATERIALS CENTERS  
LANGUAGE AND AREA CENTERS  
MIGRANT CHILD CARE CENTERS  
NATURE CENTERS  
NEIGHBORHOOD CENTERS  
CENTERS OF INTEREST  
READING CENTERS  
REHABILITATION CENTERS  
RESEARCH AND DEVELOPMENT CENTERS  
RESIDENTIAL CENTERS  
RESOURCE CENTERS  
SCHOOL STUDY CENTERS  
SCIENCE TEACHING CENTERS  
SKILL CENTERS  
STUDY CENTERS  
SUPPLEMENTARY EDUCATIONAL CENTERS  
VOCATIONAL TRAINING CENTERS  
CENTRAL SOUND SYSTEMS  
CENTRALIZATION

Circle your term -- NATURE CENTERS -- in each column

in the ROTATED DESCRIPTOR DISPLAY (RDD). RETAIN FAITH

because they really are there. YOU'RE DOING VERY WELL ON

THIS ONE.

If you are really impatient to get to your NATURE CENTER, and only your NATURE CENTER, leap to page 15. Do you want to explore other ALTERNATIVES? Read on.

If you still have the THESAURUS open, turn to the portion called the DESCRIPTOR LISTING. You may find the chart with the tabs on page 5 helpful to find this portion quickly.

#### **NATIONAL LIBRARIES**

BT LIBRARIES  
RT ARCHIVES  
FEDERAL GOVERNMENT  
GOVERNMENT LIBRARIES

#### **NATIONAL NORMS**

BT MEASUREMENT  
RT COMPARATIVE ANALYSIS  
COMPARATIVE TESTING  
GROUP NORMS  
LANGUAGE STANDARDIZATION  
STATISTICAL ANALYSIS  
STATISTICAL DATA

#### **NATIONAL ORGANIZATIONS**

BT ORGANIZATIONS (GROUPS)  
RT COMMUNITY ORGANIZATIONS  
DENTAL ASSOCIATIONS  
HONOR SOCIETIES  
INTERNATIONAL ORGANIZATIONS  
LIBRARY ASSOCIATIONS  
MEDICAL ASSOCIATIONS  
PROFESSIONAL ASSOCIATIONS

#### **NATIONAL PROGRAMS**

BT PROGRAMS  
RT DEVELOPING NATIONS  
LANGUAGE STANDARDIZATION  
NATIONAL DEFENSE  
NATIONALISM  
SPEECHES

#### **NATIONAL SURVEYS**

BT SURVEYS  
RT NATIONAL COMPETENCY TESTS

#### **NATIVE MIGRANTS**

USE MIGRANTS

#### **NATURAL CASES**

USE FUELS

#### **NATURAL RESOURCES**

NT WATER RESOURCES  
BT RESOURCES  
RT CONSERVATION EDUCATION  
DEPLETED RESOURCES  
FORESTRY  
SOIL CONSERVATION

#### **NATURAL SCIENCES**

NT BIOLOGICAL SCIENCES  
PHYSICAL SCIENCES  
BT SCIENCES  
RT MARINE BIOLOGY  
METEOROLOGY  
NATURE CENTERS  
RADIATION BIOLOGY  
RADIOISOTOPES  
SCIENTIFIC ENTERPRISE

#### **NATURE CENTERS**

RT EDUCATION SERVICE CENTERS  
NATURAL SCIENCES  
SCIENCE TEACHING CENTERS

#### **NAVAHO**

BT AMERICAN INDIAN LANGUAGES

#### **NAVIGATION**

RT ASTRONOMY  
BOATHEN  
RADAR  
RADIO

The DESCRIPTOR LISTING (DL) will enable you to observe more of ERIC's vocabulary. Maybe your shared vocabularies can be beneficial to you.

Find the term NATURE CENTERS listed above in large black print. Look at the words and phrases listed beneath it.

Do the terms under NATURE CENTERS help you?

I DON'T KNOW.....

NO.....

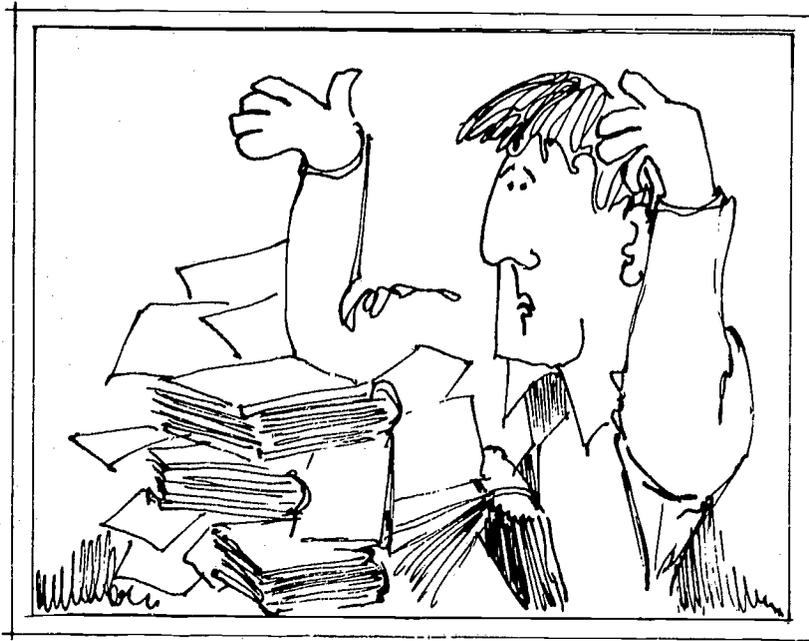
YES.....

Check your answers:

If you said you didn't know, you should be commended for your honesty.

If you replied NO, hopefully you may change your mind as you read on.

If you answered YES, did SCIENCE TEACHING CENTERS seem helpful to you? If it didn't, it might be worth a try anyway.



In any case you are finding ALTERNATIVES.

Consider the entries under **SCIENCE TEACHING**

**CENTERS:**

Perhaps you noticed an RT notation before, on page 6 or on page 9. Did you wonder what it meant?

If you are interested in discovering how terms are related in the **DESCRIPTOR LISTING**, and in checking on your understanding of the **ROTATED DESCRIPTOR DISPLAY**, read on.

If you are now impatient to reach your **NATURE CENTER**, skip to page 15.

Page 164

**SCIENCE TEACHING CENTERS**

RT EDUCATION SERVICE CENTERS  
NATURE CENTERS  
PLANETARIUMS  
SCIENCE EDUCATION

**SCIENCE TESTS**

BT TESTS  
RT ACHIEVEMENT TESTS  
COGNITIVE TESTS  
INTEREST TESTS  
SCIENCES  
VERBAL TESTS

**SCIENCE UNITS**

BT UNITS OF STUDY (SUBJECT FIELDS)  
RT SCIENCES  
UNIT PLAN

**SCIENTIFIC ATTITUDES**

BT ATTITUDES  
RT PROBLEM SOLVING  
SCIENCES  
SCIENTIFIC CONCEPTS  
SCIENTIFIC ENTERPRISE  
SCIENTIFIC METHODOLOGY

**SCIENTIFIC CONCEPTS**

UF TECHNOLOGICAL CONCEPTS  
NT RELATIVITY  
SPACE  
TIME  
LIGHT  
INFORMATION (CONCEPT)  
NATIONS

*Maybe what your nature center dream needs is a planetarium!  
Keep the term for later. You never know . . .*

The DESCRIPTOR LISTING enables you to expand or refine your search by providing you with more terms and with an explanation of the relationships of those terms.

In ERIC:

RT means RELATED TERM.

PLANETARIUMS is related to SCIENCE TEACHING CENTERS.

#### SCIENCE TEACHING CENTERS

RT EDUCATION SERVICE CENTERS  
NATURE CENTERS  
PLANETARIUMS  
SCIENCE EDUCATION

#### SCIENCE TESTS

BT TESTS  
RT ACHIEVEMENT TESTS  
COGNITIVE TESTS  
INTEREST TESTS  
SCIENCES  
VERBAL TESTS

#### SCIENCE UNITS

BT UNITS OF STUDY (SUBJECT FIELDS)  
RT SCIENCES  
UNIT PLAN

#### SCIENTIFIC ATTITUDES

BT ATTITUDES  
RT PROBLEM SOLVING  
SCIENCES  
SCIENTIFIC CONCEPTS  
SCIENTIFIC ENTERPRISE  
SCIENTIFIC METHODOLOGY

BT means BROADER TERM.

ATTITUDES is a broader term than SCIENTIFIC ATTITUDES.

#### SCIENTIFIC CONCEPTS

UF TECHNOLOGICAL CONCEPTS  
NT RELATIVITY  
SPACE  
TIME  
WEIGHT  
RT CONSERVATION (CONCEPT)  
DEVELOPED NATIONS  
SCIENCES  
SCIENTIFIC ATTITUDES  
SCIENTIFIC LITERACY  
SCIENTIFIC METHODOLOGY  
SCIENTIFIC PRINCIPLES  
TECHNOLOGICAL ADVANCEMENT  
TECHNOLOGY

NT means NARROWER TERM.

RELATIVITY is a narrower term than SCIENTIFIC CONCEPTS.

#### SCIENTIFIC ENTERPRISE

SN TOTALITY OF SYSTEMATIC ACTIVITY OF THE SCIENCES AS AN INSTITUTION INVOLVING PROCESSES, ATTITUDES, ETHICS, AND INTERRELATIONSHIPS OF SCIENCE WITH OTHER INSTITUTIONS  
RT DEVELOPED NATIONS  
NATURAL SCIENCES  
SCIENCES  
SCIENTIFIC ATTITUDES  
SCIENTIFIC PRINCIPLES

SN means SCOPE NOTE.

The scope note defines the meaning of the term SCIENTIFIC ENTERPRISE.

#### SCIENTIFIC LITERACY

BT LITERACY  
RT COMPREHENSION  
SCIENCE EDUCATION  
SCIENTIFIC CONCEPTS  
SCIENTIFIC PRINCIPLES

#### SCIENTIFIC MANPOWER

RT MANPOWER DEVELOPMENT  
MANPOWER UTILIZATION  
SCIENTIFIC PERSONNEL  
SCIENTISTS

UF means USED FOR.

The term SCIENTIFIC METHODOLOGY is used for the term SCIENTIFIC METHODS.

#### SCIENTIFIC METHODOLOGY

UF SCIENTIFIC METHODS  
BT METHODOLOGY  
RT DEVELOPED NATIONS  
PROBLEM SOLVING  
SCIENCE EDUCATION  
SCIENCES  
SCIENTIFIC ATTITUDES  
SCIENTIFIC CONCEPTS

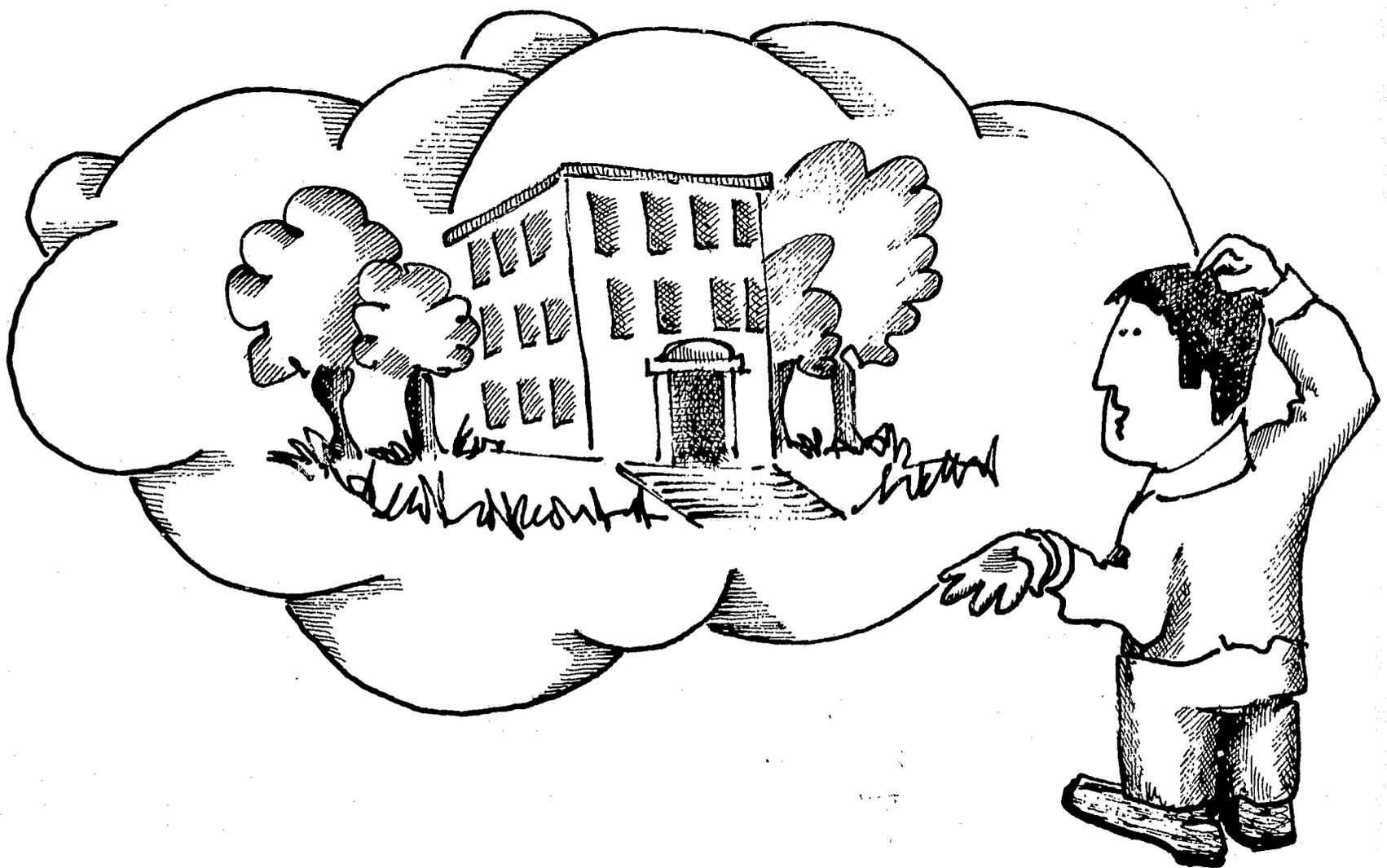
Want to check your progress?

BE CREATIVE. Make your own ERIC dictionary.

ROTATED DESCRIPTOR DISPLAY	DESCRIPTOR LISTING
..... APPLE .....	APPLES
..... APPLE .....	ET .....
..... APPLE .....	NT .....
..... APPLE .....	.....
..... APPLE .....	RT .....
..... APPLE .....	.....

Troubles? Cheat a little by referring to page 8 for ROTATED DESCRIPTOR DISPLAY assistance and to pages 9 and 12 in working out the DESCRIPTOR LISTING portion.

Evaluate your effort by peeking on the next page.

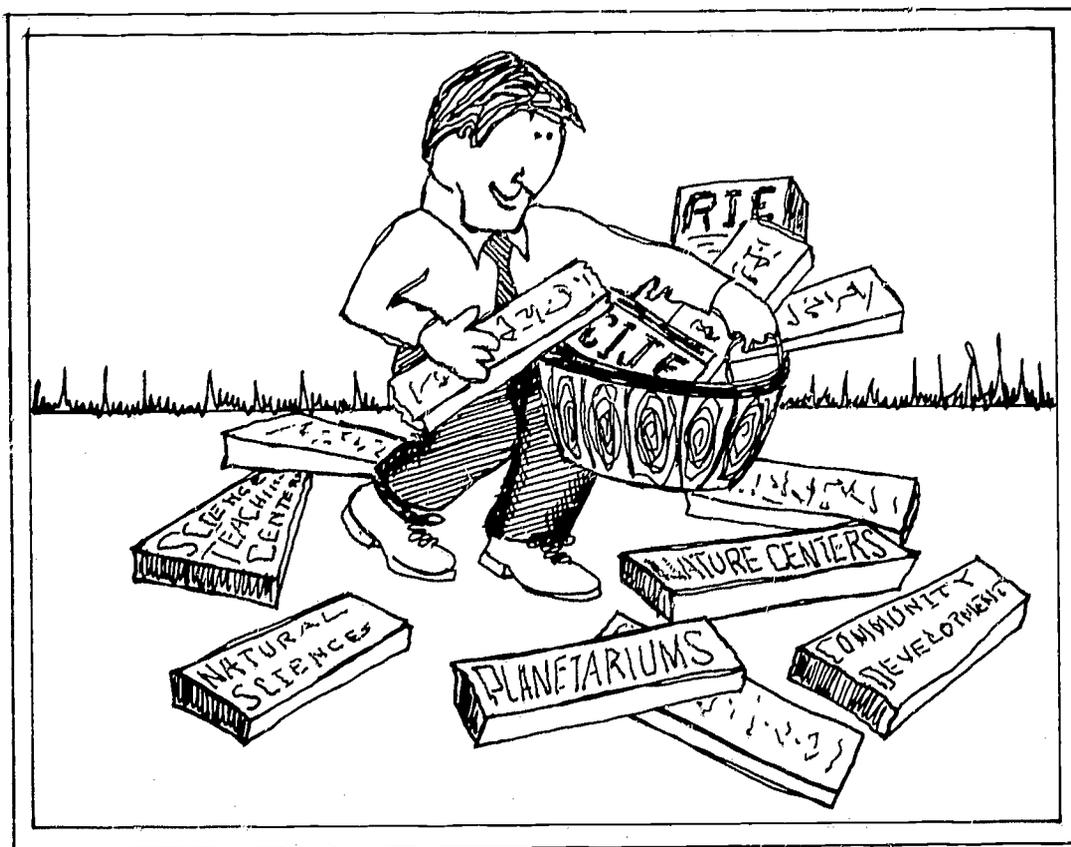


A sample response could look as follows:

THE BIG APPLE	APPLES
APPLE BROWN BETTY	BT FRUIT
APPLE	NT DELICIOUS APPLES
MACINTOSH APPLES	MACINTOSH APPLES
APPLESAUCE	RT PEARS
	PEACHES

HOW DID YOU DO?

ON TO THE NATURE CENTERS.

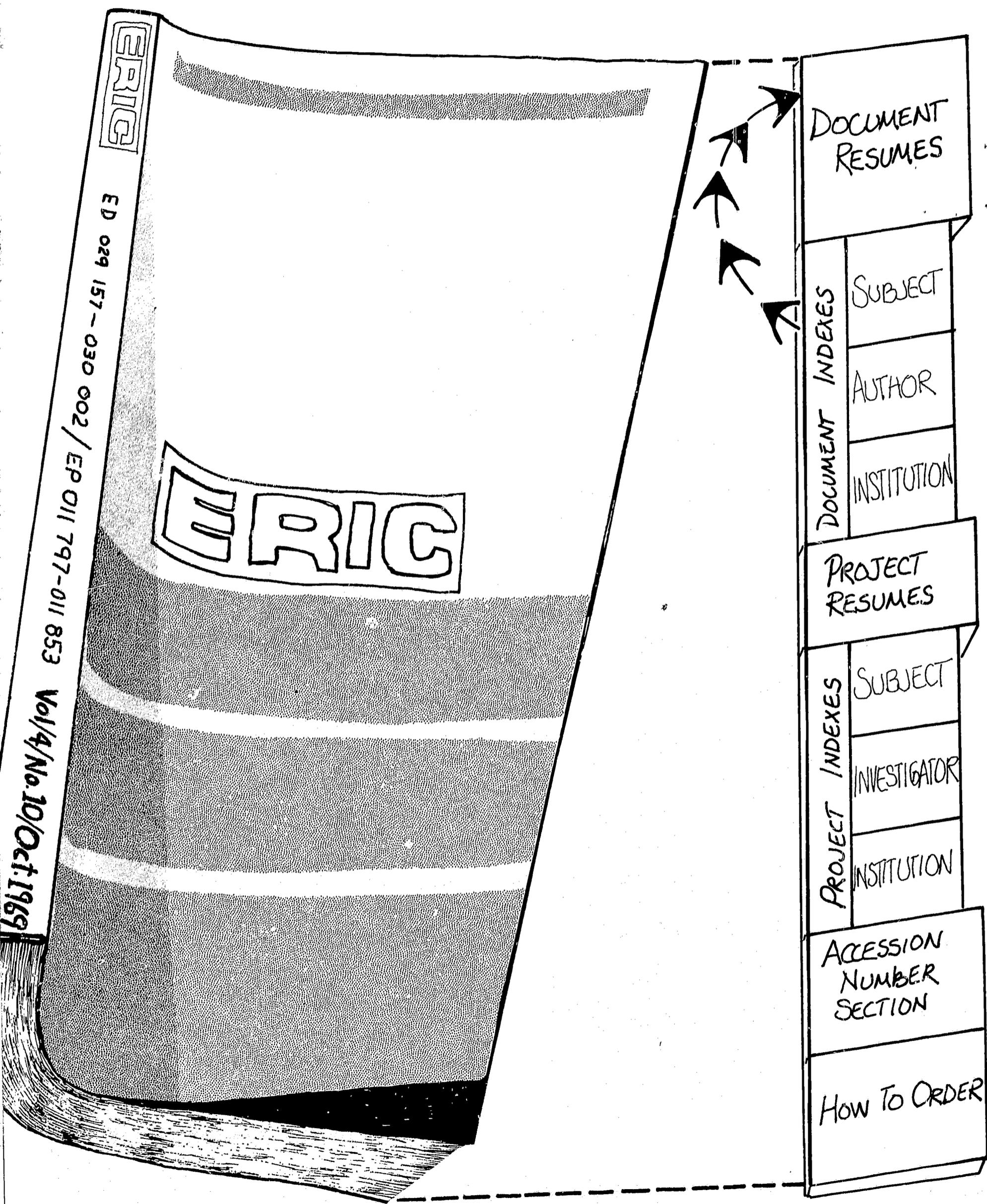


Pick up your term and the RESEARCH IN EDUCATION monthly publication, if you have it. Otherwise, just read on.

TAKE A DEEP BREATH. You are about to transfer the descriptor NATURE CENTERS into title, and then the title into resume. (A resume is what the RIE entry on page 3 is.)

But you have to know where to turn in the RIE monthly publication.

FOLLOW THE ARROWS ON THE NEXT PAGE.



ERIC

ERIC

ED 029 157-030 002 / EP 011 797-011 853

Vol 4/No 10/Oct 1969

DOCUMENT RESUMES

DOCUMENT INDEXES

SUBJECT

AUTHOR

INSTITUTION

PROJECT RESUMES

PROJECT INDEXES

SUBJECT

INVESTIGATOR

INSTITUTION

ACCESSION NUMBER SECTION

HOW TO ORDER



SUBJECT INDEX

**Natl Advisory Co. Edu**  
 First Annual Report of the Council on Extension and Continuation Presented to the President of the States and the Secretary of Health, Education, and Welfare. ED 029 187

**Nature Centers**  
 Nature Centers and Outdoor Education Facilities. ED 029 483

**Navy Vocational Interest Inventory**  
 An Analysis of the Navy Vocational Interest Inventory as a Predictor of School Performance and Rating Assignment. ED 029 250

**Needs**  
 Program for Learning in Accordance with Needs. ED 029 327  
 Student Services in Higher Education. ED 029 342

**...ation Agreements**  
 ...ion Contract and Principal Leadership ... City Schools. ED 029 400

**... of Ego Function-...**  
 ...ent. ED 029 344

DOCUMENT RESUME

ED 029 483 EF 003 353  
**Nature Centers and Outdoor Education Facilities.**  
 National Audubon Society, New York, N.Y.  
 Pub Date Sep 68  
 Note—32p.  
 Available from—National Audubon Society, Nature Centers Division, 1130 Fifth Avenue, New York, N.Y. 10028 (\$1.00)  
 EDRS Price MF-\$0.25 HC-\$1.70  
 Descriptors—Conservation Education, \*Educational Facilities, Education Service Centers, \*Natural Sciences, \*Nature Centers, \*Outdoor Education, Science Teaching Centers

The objective in the compilation of the information is to reach individuals, groups or clubs devoted to conservation who may wish to visit nature centers in their vicinity. In addition, school officials contemplating outdoor education projects for their students are made aware of the location of successful, full-time programs. This list is an encouragement to the conservation-minded as evidence of the accomplishments in community nature center planning, and can be used by schools and colleges as a source of reference for information on outdoor education programs. (RK)

READ THE ABSTRACT OF THE DOCUMENT.

Other descriptors in the Subject Index that would have led you to this resume.

**Educational Facilities**  
 Facility Technology—Catalyst...  
 Five Climate Control Techniques for Schools. ED 029 965  
 A Guide for Planning Facilities for Occupational Preparation Programs for Dental Assistants. Research Series No. 35. ED 029 965  
 A Guide for Planning Facilities for Occupational Preparation Programs for Dental Hygienists. Research Series No. 37. ED 029 966  
 Nature Centers and Outdoor Education Facilities. ED 029 483  
 Protection in Educational Institutions. ED 029 469  
 ...ection and Measurements. ED 029 469  
 ... for Secondary... ED 029 484

**Oriental Music**  
 Japanese; Japanese...

**Oswego Plan for Team Supervision**  
 The Oswego Plan for Team Supervision for Beginning Teachers. ED 029 688

**Outdoor Education**  
 Nature Centers and Outdoor Education Facilities. ED 029 483

**Overhead Projectors**  
 The Use of Overhead Projection in Classrooms for the Mentally Retarded. ED 029 423

**... Associate Learning**  
 ... Fostering the Use of Informative ... Young Children. ED 029 688

... Six Essays for ... ED 029 891

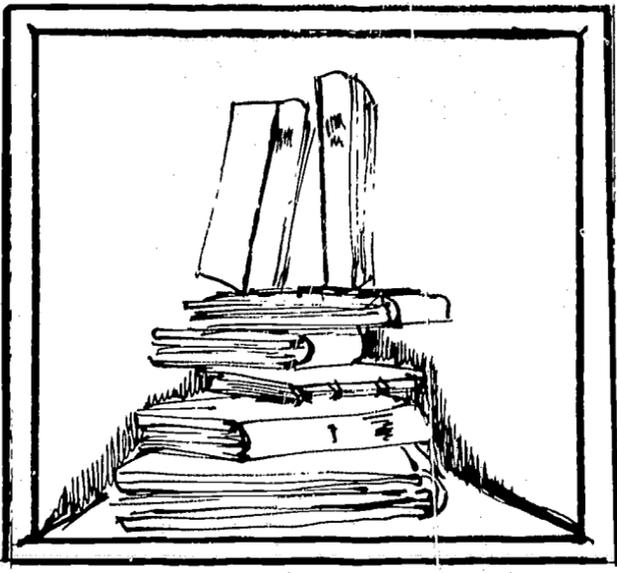
ARE YOU HAPPY?

NO...

YES...

YES, AND WANT MORE...

Check your answers:  
If you said NO, try the alternatives on the next page.  
If you said YES, you are fortunate.  
If you said YES, AND WANT MORE, consult the suggestions given to the readers who answered "NO."



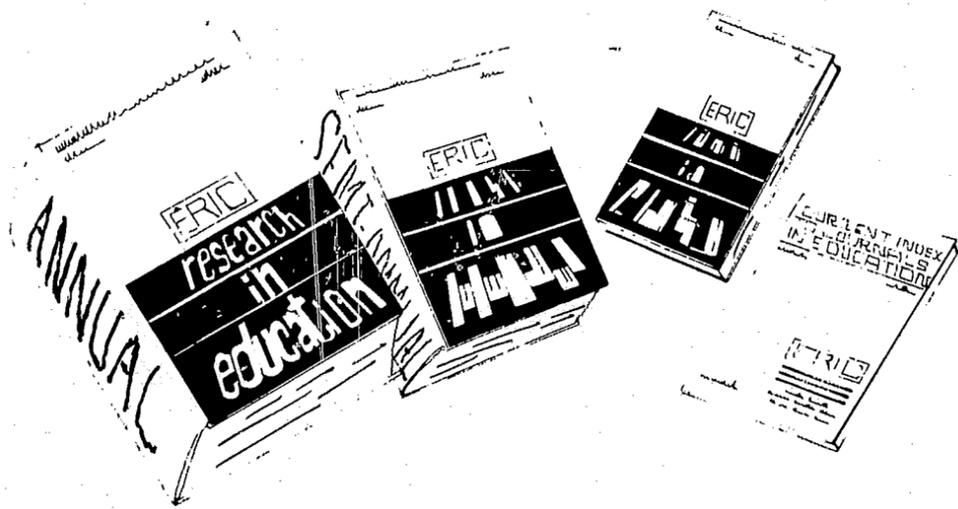
## ALTERNATIVES

Check other titles in the subject index under your NATURE CENTER term.

Check subject indexes of other monthly RIE publications, and the semi-annual and annual compilations.

Check other terms besides NATURE CENTERS.  
Hint: Remember PLANETARIUMS as well as SCIENCE TEACHING CENTERS.

Check the monthly publications and the annual compilation of CIJE. If you need a crutch--to duplicate the search process in CIJE, here is the process: Look in the subject index for NATURE CENTERS. Then look up the EJ number (J is for journal) and read the descriptors and annotations in the resumes.



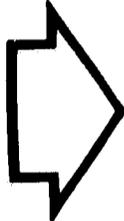
DO YOU WANT THE ARTICLE?

TURN THE PAGE

for "how to get it"

AVAILABILITY INFORMATION

MOST documents are available from the ERIC Document Reproduction Service.



( MF means Microfiche )  
( HC means Hardcopy )

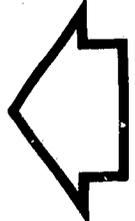
ED 029 483 EF 003 353  
Nature Centers and Outdoor Education Facilities.  
National Audubon Society, New York, N.Y.  
Pub Date Sep 68  
Note--32p.  
Available from--National Audubon Society, Nature Centers Division, 1130 Fifth Avenue, New York, N.Y. 10028 (\$1.00)  
EDRS Price MF-\$0.25 HC-\$1.70  
Descriptors--Conservation Education, \*Educational Facilities, Education Service Centers, Natural Sciences, \*Nature Centers, \*Outdoor Education, Science Teachers  
The objective in the information is to reach or clubs devoted to conservation to visit nature centers. In addition, school outdoor education projects made aware of the location of these programs. This list is an attempt to the conservation-minded as well as the accomplishments in community nature center planning, and can be used by schools and colleges as a source of reference for information on outdoor education programs. (RK)

Turn to "How to Order" Section in RIE

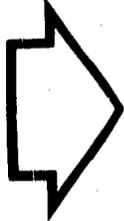
ED 015 126 SE 003 227  
ASHBAUGH, BYRON L.  
PLANNING A NATURE CENTER.  
NATIONAL AUDUBON SOCIETY, NEW YORK, N.Y.  
PUB DATE 66

DOCUMENT NOT AVAILABLE FROM EDRS.  
DESCRIPTORS \*CONSERVATION EDUCATION, \*EDUCATIONAL FACILITIES, \*ELEMENTARY SCHOOL SCIENCE, \*NATURE CENTERS, \*OUTDOOR EDUCATION, \*PROGRAM PLANNING, \*SECONDARY SCHOOL SCIENCE, ADULT EDUCATION, BIOLOGY, COLLEGE SCIENCE, COMMUNITY RESOURCES, EARTH SCIENCE, EDUCATIONAL OBJECTIVES, EDUCATIONAL PROGRAMS, NATIONAL AUDUBON SOCIETY, URBAN EDUCATION,

THIS BULLETIN IS PRODUCED BY THE NATURE CENTERS DIVISION, NATIONAL AUDUBON SOCIETY TO PROVIDE PROFESSIONAL GUIDANCE AND TECHNICAL KNOW-HOW IN THE DEVELOPMENT OF COMMUNITY NATURE AND CONSERVATION CENTERS. THE TOPICS COVERED ARE--(1) PURPOSE AND VALUE OF A NATURE AND CONSERVATION CENTER, (2) INITIAL CONSIDERATIONS SUCH AS COMMUNITY READINESS, LAND AVAILABILITY, AND TYPE OF NATURE CENTERS, (3) ORGANIZING FOR ACTION INCLUDING SUGGESTIONS FOR COMMITTEE FORMATION, (4) APPRAISING THE COMMUNITY'S RESOURCES, (5) PLANNING THE PROGRAM INCLUDING TOPICS COVERED, BY GRADE LEVEL, SUBMITTED BY CENTERS ALREADY IN OPERATION, (6) SITE AND BUILDING PLANNING WITH DIAGRAMED LAYOUTS AND PLANS, (7) PLANNING EDUCATIONAL FACILITIES SUCH AS TRAIL PLANNING AND OUTDOOR DEMONSTRATIONS AND DISPLAYS, (8) STAFFING, BUDGET, AND FUND RAISING, AND (9) OPERATIONAL SUGGESTIONS FOR AFTER THE CENTER IS OPEN. APPENDED ARE--(1) A SAMPLE CONSTITUTION AND BYLAWS FOR A NATURE CENTER, (2) SAMPLE ARTICLES OF INCORPORATION, (3) THE SERVICE OFFERED BY THE NATURE CENTERS DIVISION OF THE NATIONAL AUDUBON SOCIETY, (4) NAMES AND ADDRESSES OF NATURE CENTERS AND DEMONSTRATION FARM OPERATED BY NATIONAL AUDUBON SOCIETY, (5) SOURCES OF MATERIALS AND ASSISTANCE, AND (6) SUGGESTIONS FOR MAKING TRAIL MARKERS AND OTHER SIGNS. THIS DOCUMENT IS AVAILABLE FOR \$2.00 FROM THE NATIONAL AUDUBON SOCIETY, 1130 FIFTH AVENUE, NEW YORK, NEW YORK 10028. (DS)



SOME documents are not available from EDRS.



ED 029 784 SE 006 197  
Gibbs, Ronald Keith  
An Analysis of the Effectiveness of the Biological Sciences Curriculum Study Single Topic Films in Teaching Hypotheses Construction to High School Biology Students.  
Indiana Univ., Bloomington.  
Pub Date 67  
Note--133p.

Available from--University Microfilms, 300 North Zeeb Road, Ann Arbor, Michigan 48106 (Order No. 67-16299. Microfilm \$3.00, Xerography \$6.40)

Document Not Available from EDRS.  
Descriptors--\*Achievement, \*Biology, \*Films, \*Instruction, \*Secondary School Science Curriculum Study, \*Effectiveness of a Curriculum Study

but your source is given in the availability notation either as above or, in older issues of RIE, at the end of the abstract.

Haven't things improved since the computer learned to print in upper and lower case?

## WHAT HAVE YOU ACCOMPLISHED?

You have completed a brief search in ERIC, the Educational Resources Information Center.

You GET A KICK-OFF TOWARD YOUR NATURE CENTER  
...and a pat on the back.

This same procedure may be duplicated many times and modified to meet your MOODS and your NEEDS.

Once again, here are the steps:

1. State your question.
2. Select your key words.
3. Translate into ERIC's language by using the THESAURUS.
  - A. Try the ROTATED DESCRIPTOR DISPLAY.
  - B. Consult the DESCRIPTOR LISTING.
4. Look up the selected terms in the subject indexes of the RIE and the CIJE, and transfer terms to numbers and titles.
5. Consult the "Document Resume" section of the monthly RIE publication if you'd like to see abstracts of your choices.
6. Obtain the document from the library, or consult the appropriate source.

\* \* \*IN DOING YOUR OWN SEARCH\* \* \*

IF YOU DON'T FIND YOUR TERM IN THE ROTATED  
DESCRIPTOR DISPLAY:

Think of another way to say it, either by yourself, or with the help of the DESCRIPTOR LISTING. The DESCRIPTOR LISTING contains non-ERIC words with translations into the ERIC words. For example, looking for POT in the ROTATED DESCRIPTOR DISPLAY? Look up POT in the DESCRIPTOR LISTING, and it will tell you to use MARIJUANA--the ERIC word. (Only MARIJUANA...only ERIC words...are listed in the ROTATED DESCRIPTOR DISPLAY.)

IF YOU DON'T FIND YOUR TERM IN THE DESCRIPTOR  
LISTING:

Remember to check the ROTATED DESCRIPTOR DISPLAY-- first! Want to find the term PROSPECTIVE TEACHERS when there's no PROSPECTIVE under "P" in the DESCRIPTOR LISTING? Check the ROTATED DESCRIPTOR DISPLAY under main words PROSPECTIVE and TEACHERS. You'll find no PROSPECTIVE column, but under TEACHERS, you may find ERIC words that will do -- Student TEACHERS, Preservice TEACHERS.

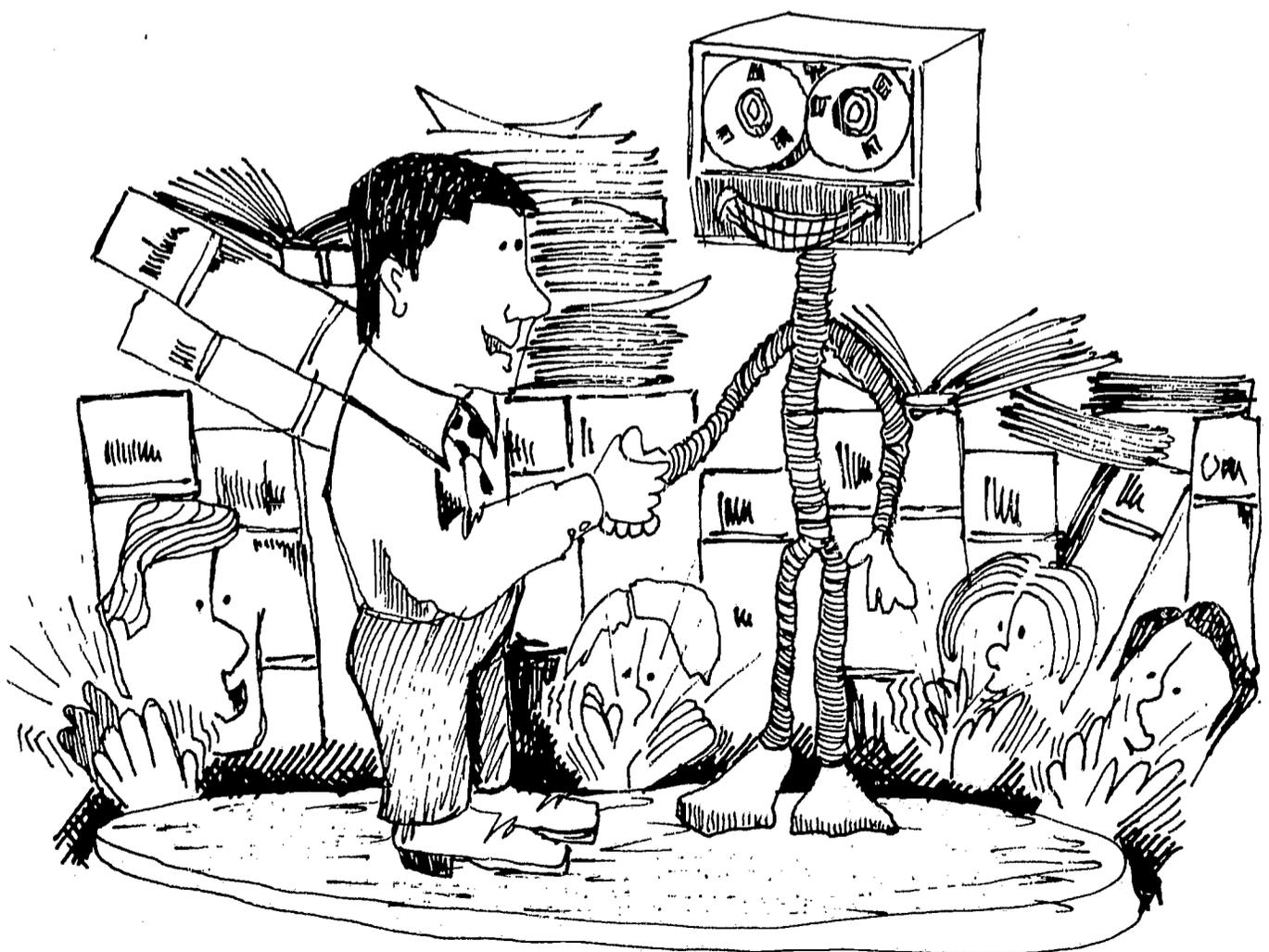
Someday, ERIC will materialize as a computer-assisted library system.

Then your search through hundreds of journals, speeches, and documents will become...

easier,

...easier,

...and even easier.



"How to Conduct a Search Through ERIC" was prepared pursuant to a contract with the U.S. Department of Health, Education, and Welfare, Office of Education [OEC-0-8-080490-3706-(010)]. Contractors undertaking such projects under government sponsorship are encouraged to express their judgment in professional and technical matters. Points of view or opinions do not, therefore, necessarily represent official Office of Education position or policy.