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ABSTRACT
        The role of helping professionals is emerging as an
integral part of a comprehensive program. "Resource resourcefulness,"
a developmental phase of any such program, requires special knowledge
and skills on the part of all helping professionals, from counselors
to career education specialists. A resource can be defined as any
source of information, human or nonhuman. Acquiring and maintaining
these resources can be assimilated into the total process of needs
assessment, program design, implementation and evaluation. The
workshop described is designed to help participants acquire specific
skills to apply to their work settings. The one-day training program
can be used for preservice counselor education, and provides a
step-by-step approach to developing skills in resource acquisition
and utilization from the beginning stage of resource attitudes
assessment to the final stage of implementation. (Author/BMW)

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RESOURCE RESOURCEFULNESS:

A ONE-DAY TRAINING WORKSHOP

by

Helen L. Mamarchev and Beverly Pritchett

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ABOUT THE AUTHORS

Helen L. Mamarchev is currently serving as Senior Information Specialist at ERIC/CAPS. She is also a doctoral candidate in the guidance and counseling program at The University of Michigan. Her background is primarily in student personnel work and counseling at the university level.

Beverly Pritchett is currently working with the New York State Association of Rehabilitation Facilities. She wrote this monograph while employed as an Information Specialist at ERIC/CAPS. Her background is primarily in English and linguistics and special education at the secondary level.

Since joining the CAPS staff Helen and Beverly have co-authored several counselor training modules and presented workshops on the design and implementation of performanced-based comprehensive career guidance programs with a particular emphasis on the acquisition and use of human and non-human resources. They have also been responsible for presentations in the CAPS Learning Resources Center, focusing on the use of ERIC as an aid for students and educational personnel.

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A 1-DAY TRAINING WORKSHOP

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Helen L. Mamarchev and Beverly Pritchett

PROGRAM BACKGROUND

The role of helping professionals is emerging as an integral part of
a comprehensive program rather than as an isolated endeavor. "Resource
resourcefulness" is one phase in the development of any such program. A
resource can be defined as any source of information, human or nonhuman.
Acquiring and maintaining resources is a waste of effort unless they are
assimilated into the total process of needs assessment, program design,
implementation, and evaluation. This training workshop assumes that the
participant's desire to use resources effectively stems from commitment to
a total program. The workshop is designed to help participants acquire
specific skills which they can then apply in the context of their own work
settings.

Need

In this century the information available in the world is expanding
to such an extent that we are experiencing an "information explosion," in
which the total amount of information doubles every 7 to 10 years. By the
time students entering kindergarten today graduate from high school,
there will be three or four times as much information as now; and by the
time these students are ready for retirement, the amount of information

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available will have increased approximately 65 times since their kinder-
garten days (Hollis & Hollis, 1969).

We acquire information from many kinds of resources, both nonhuman
and human. One need only recall a recent visit to a local bookstore, to a
library, or to the exhibit area of a national professional association con-
vention to realize the tremendous variety of resources available to us--
books, movies, filmstrips, audiotapes, videotapes, kits, flyers, computer
programs, pamphlets, reports, guides, journals. Similarly, human resources
abound in schools, communities, and business, and government agencies.
Indeed, it is impossible for anyone even to comprehend all of the infor-
mation available through these sources, much less be able to utilize it.
Selection of what is usable is becoming increasingly difficult, and a
resource which has meaning for one person may have no meaning for another.

> Today the challenge is not to get information but rather to
> select pertinent information. With the information explo-
> sion another challenge arises: making sure that one has
> not omitted from his consideration information that may be
> important to him. (Hollis & Hollis, 1969, p. 4).

Thus, appropriate resource utilization includes familiarity with what re-
sources are available, evaluation of the resources that seem most appro-
priate, and selection of those which best meet the unique needs of the
situation and clientele.

The reader will immediately note the career development focus of this
training program. Although becoming resource resourceful is a competency
needed by developers of any program, the increasing emphasis in education
on teaching the concepts and skills of career development makes it a
logical choice for examples. Educators now recognize that decision-making
skills, values clarification, and self-knowledge are crucial to satisfying
occupational choice and rewarding experiences in all aspects of life.

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Underlying the pressures on educators from students, parents, community members, and legislators is the demand for accountability--for measurable evidence that whatever program is adopted achieves visible and worthwhile outcomes. Meeting this demand requires the development of career guidance programs with clearly defined goals and objectives which effectively utilize an intermix of resources from within and outside the school. The identification and use of resources is a critical factor in the success or failure of a program effort.

Purpose

Resource resourcefulness requires special knowledge and skills on the part of all helping professionals, including counselors, counselor educators, student personnel workers, agency counselors, pupil personnel workers, vocational guidance personnel, and career education specialists. Because this role may be new to some of these individuals, they may need inservice training to develop new competencies. Individuals already responsible for obtaining and maintaining resources will also find this program helpful in renewing and updating their present skills.

This document describes a 3-day training program that may be used by individuals, in inservice experiences, in preservice counselor education programs, to teach participants the knowledge and skills required to gain familiarity with, to evaluate, and to select resources appropriate to their work setting. The program is transportable, competency-based, and usable in a wide variety of settings. It emphasizes building competence rather than merely acquiring facts and ideas, so that the focus is on doing, on putting into practice what is learned. At the conclusion of the training, participants will have developed an Action Plan to put to immediate use in their work.

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Although the intended user of this document is the individual respon-
sible for collection and dissemination of resources within a program, we
take the attitude that the most effective way of accomplishing the tasks
of program design and implementation is through the team approach. Helping
professionals have traditionally operated as individuals, doing whatever
was most personally appealing within the counseling or guidance services
framework. Those who have tried to develop unified programs have often
failed because of lack of administrative and staff understanding and sup-
port. It is our view, therefore, that the resource person will have
greater potential for success if he/she collaborates with others who are
responsible for the institution's goals, objectives, and outcomes.

Description

The workshop provides a step-by-step approach to developing skills in
resource acquisition and utilization from the beginning stage of resource
attitudes assessment to the final stage of implementation. The program is
presented as a single, integrated package that can be self-taught in an
individual time-frame, or used as a pre- or inservice workshop of approxi-
mately one day in length. Instructions for the facilitator of the work-
shop are provided in the Facilitator's Guide following the participant
materials.

The basic components of this systematic approach to resource resource-
fulness include:

1. Preassessments of resource attitudes and current resources
   available in the participant's setting;

2. Presentation of the Resource Implementation Model (RIM) with
   - activities focusing on becoming familiar with nonhuman and human

resources, evaluating and choosing resources, and developing
resource action plans;

3. Customizing the RIM for each participant's setting; and

4. Postassessment of resource attitudes.

The Facilitator's Guide which follows the participant materials con-
tains complete instructions for implementing the program. Approximate
times are also specified for each section of the program in the Guide.

Upon completion of the program, participants will possess the knowl-
edge and skills and, hopefully, the motivation necessary to implement the
Action Plan which they develop. Using this plan, they should be able to
respond more effectively to the resource needs of their institution.

On the next page begins the participant section of the resource
resourcefulness training program.

This program is designed for helping professionals in schools (K-12) and agency settings such as guidance counselors, student personnel workers, and agency personnel responsible for acquisition and maintenance of resources. It is also intended for students in preservice education who have had work experience in resource utilization. Students in preservice programs without previous experience should be involved in concurrent field placement or internship programs to make the learning experiences personally relevant.

It is assumed that the organization has made a tentative commitment to developing a new or revised program, and has designated the workshop participant as the coordinator responsible for collection and dissemination of resources. Preservice students will hypothetically assume this role.

The program focuses on helping participants develop skills in acquiring and using resources for initiating, developing, or improving programs in their work settings. This includes becoming familiar with an array of human and nonhuman resources, evaluating them, and developing an action plan for use of at least one resource.

PROGRAM OBJECTIVES

When you have completed this program, you will be able to use the Resource Implementation Model (RIM) to acquire and use resources in your setting. Specifically, you will be able to:

1. State three characteristics of each of four (or more) nonhuman resources.

2. Develop a strategy for a manual search of an educational data base as shown by successful completion of the Data Base Comprehension Check.

3. Retrieve information effectively from human resources, as shown by receiving an acceptable role play rating on the Interviewer Rating Sheet.

4. Apply appropriate criteria to evaluate resources as shown by using at least six factors from a specified master list.

5. Develop a plan for using a resource in your setting, as shown by listing at least three activities in each of the three categories of the Resource Action Plan Guide.

6. Demonstrate increased confidence in your resource resourcefulness, as measured by a positive change in your scores on the Resource Attitudes Pre- and Postassessments.

PROGRAM OUTLINE

Approximate Time	Activity	Objective(s)
1 hour	Introduction. Explanation of structure and purpose of program. Activity to promote awareness of resource attitudes.	6
2 hours	Introducing the RIM. Activities and text on becoming familiar with an array of resources and practice in using a representative data base.	1, 2, 6
1 hour	Activities and text on using human resources.	3, 6
3/4 hour	Activities and text on evaluating and choosing resources.	4, 6
1 hour	Activities and text on developing an action plan, using first a simulated setting and then a real situation.	5, 6
1/4 hour	Concluding Resource Inventory and Wrapup.	6

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I. INTRODUCTION

Imagine that you have been appointed to a newly formed committee called the Career Development Committee. Your job is to work with other professionals to improve the level of career guidance in the schools and the community. Your task will involve students at all levels, as well as various interested adults. The whole thing sounded interesting when you were first appointed, so you didn't mind switching around your crowded schedule to make time for this new task.

But the committee that is supposed to design the program has just finished its first meeting, and you're wondering if it's going to be worth it after all. The meeting started out all right, with everyone agreeing that they'd like to get some more resources in the area of career development. But from that point on it seemed to fall apart. At the end you were ready to leave, feeling that the group had just gone around in circles and not accomplished much.

In the first place, Roger Resource is the chairman. He's the kind of person who has a million ideas for people to talk to and films to look at and references to check. But he doesn't weed out the good ones from the bad. He goes off in six different directions and never really focuses in on how his resources relate to the problem at hand. In the meeting he and Johnny Journal managed to waste quite a bit of time. Johnny seems to have read every counseling periodical that's come out since 1958, and can quote titles and authors at length. But he's so busy telling people about what he's read that he never has time to do anything with his knowledge. He seems to have some good information, really, and so does Roger; but they don't know how to put it to use.

Then there's Patsy Prestige. Her idea is that the only way to accomplish something is to run out and hire an expert, preferably from another state. She's ready to spend the whole of the committee's not-very-large budget on bringing in outside resources, without even looking to see what's locally available.

The other committee member is Eunice Excuse. She's the one who finds something wrong with everyone else's suggestions. This idea takes too much time, that one is too difficult, and of course they're all too expensive. She thinks there's no point in reading any articles because they're all jargon anyway, and there's no point in checking out the film library because all of those resources are bound to be out of date. You find yourself wondering why she bothered to come to the meeting at all.

You left the meeting with nothing decided, convinced that there must be a better way to find and use resources. What's more, you are determined to learn what that is--before the next committee meeting. That "better way" is what this program is about. When you have finished it, you will know what resources are, how to evaluate them, and how to implement them in your setting. Unlike the other people on the committee, you will be resource resourceful.

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II. A. *RESOURCE ATTITUDES PREASSESSMENT*

Let's go back to those committee members and think about them again. It isn't hard to see what the problems are. Roger knows about a lot of resources, but he isn't able to evaluate their usefulness. Johnny also has a lot of knowledge, but he doesn't know how to implement it. Patsy is simply not familiar with very many resources; she doesn't know how many useful resources can be found cheaply and close to home.

And Eunice's problem is her attitude. She will never be resource resourceful until she stops finding reasons why not, and begins to view the task as not only possible but challenging. Developing a positive attitude is sometimes the hardest part of becoming resource resourceful, but unless you learn to think positively, you are liable to waste all your other knowledge and skills.

Before going on to the other sections of this program, stop for a minute and consider your own resource attitudes. When you last thought about using resources, were you a Roger or a Eunice?

The following Inventory will help you clarify your own attitudes toward resource resourcefulness. Your facilitator will provide instructions for this activity.
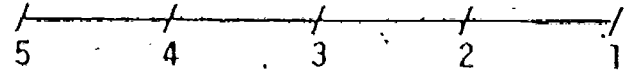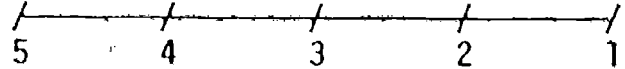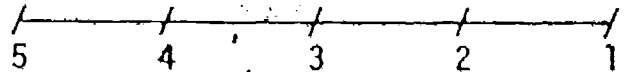
Name _____

Resource Attitudes Inventory

1. I am familiar with a lot of re-
   sources; I don't feel I lack
   resource information.

   /————————/————————/————————/————————/
   5   4   3   2   1

2. I feel comfortable about using
   data bases; they're easy to
   access.

   /————————/————————/————————/————————/
   5   4   3   2   1

3. I feel I know how to make the
   best use of the human resources
   in my setting.

   /————————/————————/————————/————————/
   5   4   3   2   1

4. I am good at evaluating resources
   and choosing appropriate ones.

   /————————/————————/————————/————————/
   5   4   3   2   1

5. I think you can acquire many use-
   ful resources without spending a
   lot of money.

   /————————/————————/————————/————————/
   5   4   3   2   1

6. Once I've acquired a resource, I
   feel I know how to implement it
   effectively.

   /————————/————————/————————/————————/
   5   4   3   2   1

7. It's easy to adapt resources
   which don't exactly fit my needs.

   /————————/————————/————————/————————/
   5   4   3   2   1

8. When I need a resource, I am con-
   fident that I can find what I'm
   looking for.

   /————————/————————/————————/————————/
   5   4   3   2   1

9. When I have a task to complete, I
   feel that finding an appropriate
   resource is worth the time and
   effort.

   /————————/————————/————————/————————/
   5   4   3   2   1

II. B. CURRENT RESOURCE INVENTORY

In addition to examining your own attitudes about resources, it is also important to identify those resources which are already present in your setting. As you begin to think about what you have on hand right now, are you certain that all the parts of that occupational information kit are really there? Do you know if that film projector has been repaired yet? And where is that index the librarian made for all those college catalogues?

If you aren't sure of the location or condition of your present resources, you can easily do a quick inventory. It may take a little time to find everything, but in the long run it will probably save you some money and avoid wasted efforts. The *Current Resource Inventory* is designed to help you accomplish this task. Your facilitator will provide instructions for this activity.

Current Resource Inventory

	Name of Resource	Location	Restrictions for Use
People (School-Based)			
Materials			
Equipment			
Community People/Places			

III. THE RESOURCE IMPLEMENTATION MODEL (RIM)

The secret to resource resourcefulness is being systematic as you consider and evaluate resources. The following three-step Resource Implementation Model (RIM) is a good way to systematize your thinking.
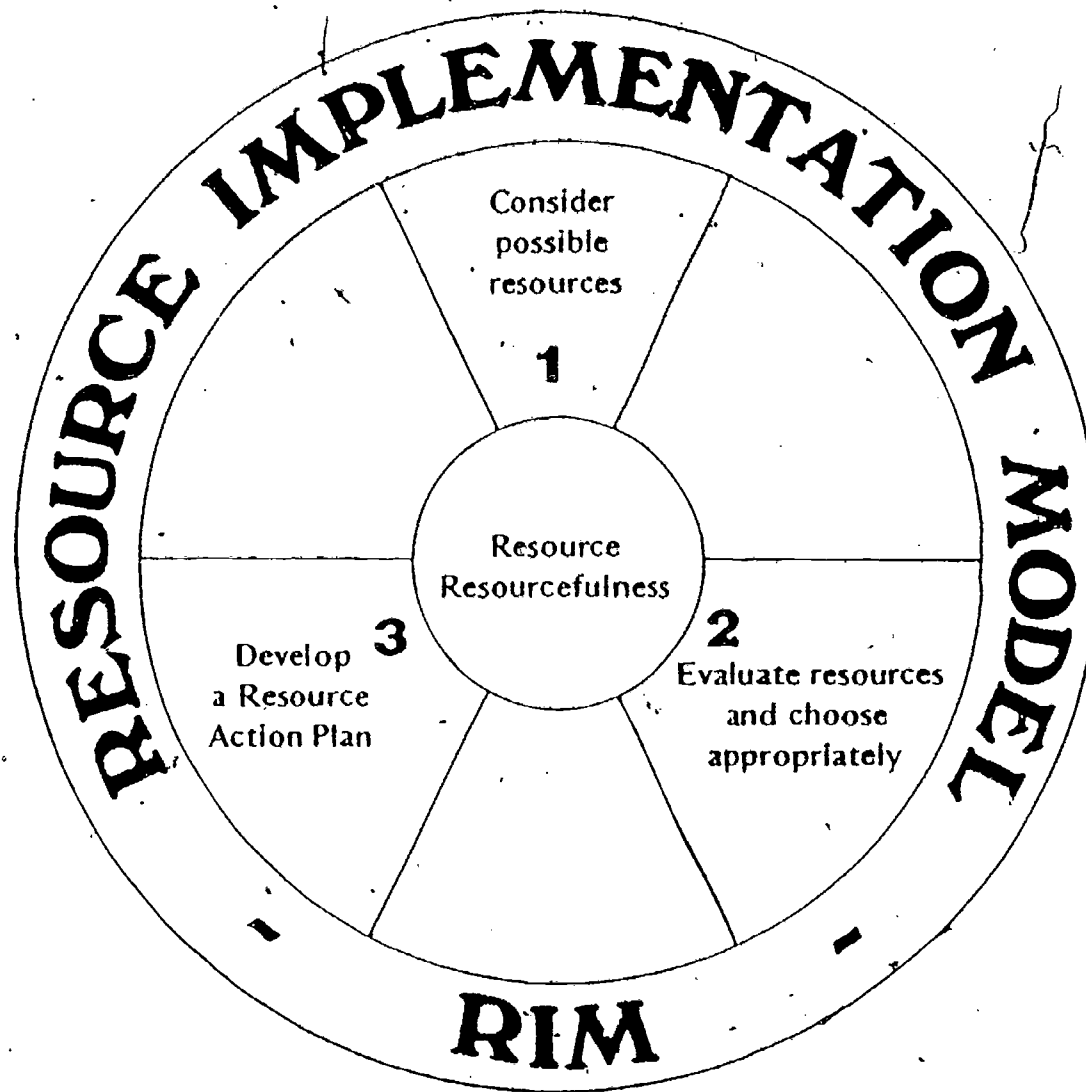
1. Consider possible resources available to you.

2. Evaluate your resources and choose an appropriate one.

3. Develop a Resource Action Plan.

The rest of this program will show you how to carry out each step in turn.

Step 1: Becoming Familiar With an Array of Resources

A. Increasing Knowledge of Nonhuman Resources

A resource is a source of information--human or nonhuman. Your con-cern may be only to use the resource to answer a particular question, as when you look in the Dictionary of Occupational Titles to see what a Technical Programer or a Stamp Presser actually does. Or you may want to obtain the resource itself, either for a short time (as when you invite a speaker or rent a film) or permanently (as when you purchase a series of modules on different occupations).

In either case, the first step is to become familiar with as many different resources as you can. In this section, you will have the chance to look at a number of nonhuman resources. (Human resources will be dealt with in Section C.) It's not necessary, like Johnny Journal, to read each book cover to cover. It's important just to know a few basic facts about some categories of resources. Some of these categories are:

Data bases. These are systems, often computerized, for information retrieval. We have concentrated here on data bases whose infor-mation tends to relate to the field of education, such as AIM/ARM or Psychological Abstracts.

Commercial Publishers. Don't think only of books! Many companies offer a variety of materials, including audiovisual aids, charts, kits, transparencies and tapes. A few well-known companies are Chronicle Guidance Publications and Science Research Associates.

Standard References. These are the basic tools from which to build a Career Resource Center. Examples are the Dictionary of Occupational Titles and the Occupational Outlook Handbook.

Local, state, national agencies. These are often able to provide
materials at little or no cost. They frequently have descriptions
and documentation of a wide variety of programs. Such agencies
include local boards of education, state departments of education,
and the National Institute of Education.

Another important category, dissemination systems, includes diffusion
networks, research coordinating units, and research and development ex-.
changes. These systems operate on state and national levels, and are
often accessible through state departments of education or national clearing-
house networks. This category will not be covered in detail here, but an
excellent source of information for this topic is Peterson, Halasz and
Bina (1977, pp. 71-108). Publication information is located in the
References section of this program.

Acquiring specific information is a never-ending process, because new
resources are always appearing. But the information in Appendices A-D
will get you started. Don't try to read it all now. The next exercise
will help you to become well acquainted with it. Your facilitator will
provide the instructions for this activity.

Name _____

Resource Comprehension Check

Nobody knows everything about resources. But it's a good idea to be familiar with some of the common ones, so that when you want something you know where to look.

In the last activity, you learned some basic facts about a wide range of resources. This next activity is designed to help you check your comprehension. Listed below are the four categories of nonhuman resources just presented. On the lines after each category, write three of the characteristics you learned about each one which will help you use it more effectively in the future.

1. Data Bases

   Characteristics: a. _____

   _____

   b. _____

   _____

   c. _____

   _____

2. Commercial Publishers

   Characteristics: a. _____

   _____

   b. _____

   _____

   c. _____

   _____

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Name _____

3. <u>Standard References</u>

   Characteristics: a. _____

                          _____

                  b. _____

                          _____

                  c. _____

                          _____

4. <u>Local, State, and National Agencies</u>

   Characteristics: a. _____

                          _____

                  b. _____

                          _____

                  c. _____

                          _____

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B. Using a Representative Data Base

The preceding section provided you with information about data bases and other nonhuman resources. This section of the program will help you learn to use data bases and, specifically, to design a search strategy which will lead you to the information you need. It is important to realize that although many data bases can be searched by computer, their greatest use is by people who do manual (or hand) searches. You don't have to be a computer expert to use a data base! Computer searching is an attractive feature which can save you time and effort in information gathering, but it uses the same basic search strategy principles as a manual search.

. One typical data base is the ERIC (Educational Resources Information Center) data base, which contains thousands of actual program descriptions, models, or guidelines, often with detailed explanations and evaluations. This would be an excellent source for the Career Development Committee. It would especially appeal to Roger and Johnny, who like lots of resources!

Most ERIC documents are available on microfiche, which are small pieces of microfilm, each containing up to 98 photographed printed pages. But don't panic! If you don't have a microfiche reader in your setting or you don't have time to do all your reading in one visit to an ERIC collection, you can still use the ERIC system. Many libraries or media centers have reader/printers which enable you to make paper copies of important pages directly from the microfiche. Most ERIC documents can also be obtained in two forms: microfiche or paper copy. Ordering information is available at your ERIC microfiche collection.

Let's see what the committee might do if they decide to visit an ERIC collection. First, they will have to design a manual search strategy

for their topic. The method for carrying out such a search strategy is

presented on the following pages.

1. State your search question,

   Write down the main headings or ideas of what you are looking for to help clarify your thoughts. This statement should be short, but as specific as possible.

   Example: Ideas or models for planning and designing a career development program involving the school and community.

2. Locate the Thesaurus of ERIC Descriptors.

   This is an index containing all of the indexing terms (descriptors) used in the ERIC system.

   THESAURUS
   of ERIC
   DESCRIPTORS
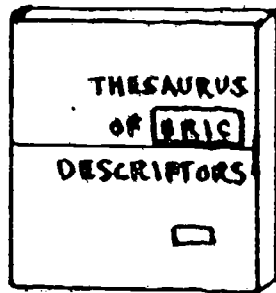
3. Using the descriptors listed in the Thesaurus, you should attempt to identify at least two descriptors that will be helpful to you in searching for materials about your topic.

   Example 1: Career Education

   (Find this descriptor on the following sample page from the Thesaurus.)

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Capitalism

CAPITALISM   Oct. 1974
CIJE: 19   RIE: 13
BT   Social Systems
RT   Communism
   Democracy
   Economics
   Government (Administrative Body)
   Imperialism
   Political Science
   Socialism
   United States History

CAPITALIZATION (ALPHABETIC)
     Jul. 1966
CIJE: 4   RIE: 14
RT   Composition   Skills (Literary)
   Punctuation
   Sentence Structure
   Spelling
   Writing Skills

CAPITAL OUTLAY (FOR FIXED ASSETS)   Jul. 1966
CIJE: 29   RIE: 114
BT   Costs
RT   Capital
   Educational Finance
   Organization Size (Groups)

CAPTIONS   Dec. 1974
CIJE: 7   RIE: 3
SN   Explanatory comments or designations accompanying pictorial illustrations, usually as underlines or overlines
UF   Cutlines
RT   Cartoons
   Films
   Illustrations
   Journalism
   Layout (Publications)
   Newspapers
   Photographs

CARDIAC (PERSON)   Jul. 1966
CIJE: 29   RIE: 6
BT   Physically Handicapped
RT   Handicapped
   Health
   Physical Characteristics
   Physical Development

CARDIOVASCULAR SYSTEM
     Jun. 1969
CIJE: 71   RIE: 31
UF   Circulatory System
   Vascular System
RT   Anatomy
   Blood Circulation
   Heart Rate
   Human Body
   Hypertension
   Physiology
   Zoology

CAREER AWARENESS   Feb. 1975
CIJE: 88   RIE: 629
SN   Appreciation for and understanding of the variety of types of careers – often refers to the initial phase of career education appropriate to the elementary school
UF   Occupational Awareness
   Vocational Awareness
BT   Vocational Development
RT   Career Choice
   Career Education
   Career Planning
   Careers
   Occupations

CAREER CHANGE   Jan. 1969
CIJE: 96   RIE: 121
UF   Employment Change
   Job Change
   Vocational Change
   Work Change
BT   Vocational Development
RT   Career Choice
   Career Opportunities
   Career Planning
   Careers
   Employment Opportunities
   Job Satisfaction
   Job Search Methods
   Labor Turnover
   Occupational Choice
   Occupational Mobility
   Promotion (Occupational)
   Vocational Adjustment

CAREER CHOICE   Jul. 1966
CIJE: 661   RIE: 606
BT   Selection
RT   Aspiration
   Career Awareness
   Career Change
   Career Education
   Career Exploration
   Career Planning
   Careers
   Employment Opportunities
   Occupational Aspiration
   Occupational Choice
   Occupations
   Personal Interests
   Vocational Interests
   Vocational Maturity

Career Development
USE   VOCATIONAL DEVELOPMENT

CAREER EDUCATION   Oct. 1971
CIJE: 1,286   RIE: 3,237
SN   A comprehensive educational program that focuses on individual career development, beginning with grade 1 or earlier and continuing through the adult years
BT   Education
RT   Aerospace Education
   Career Awareness
   Career Choice
   Career Exploration
   Career Planning
   Careers
   Occupational Guidance
   Occupations
   Technical Education
   Vocational Development
   Vocational Education

CAREER EXPLORATION   Sep. 1975
CIJE: 60   RIE: 316
SN   Investigating occupational interest areas often through real or simulated job experience – frequently refers to the second phase of career education appropriate for grades 6 through 10
UF   Occupational Exploration
BT   Vocational Development
RT   Career Choice
   Career Education
   Career Planning
   Careers
   Occupational Choice
   Occupations
   Vocational Interests
   Vocational Maturity

CAREER LADDERS   May 197
CIJE: 79   RIE: 203
SN   Hierarchy of occupational progression, with training from entry level position to higher levels in the same occupation
UF   Job Ladders
BT   Occupational Mobility
RT   Adult Vocational Education
   Entry Workers
   Inservice Education
   Manpower Development
   Promotion (Occupational)
   Training

Career Objectives
USE   OCCUPATIONAL CHOICE

CAREER OPPORTUNITIES   Jul. 196
CIJE: 424   RIE: 613
BT   Opportunities
RT   Career Change
   Career Planning
   Careers
   Demand Occupations
   Employment Counselors
   Employment Opportunities
   Job Search Methods
   Recruitment
   Vocational Development

Career Orientation
USE   CAREER PLANNING

CAREER PLANNING   Jul. 1966
CIJE: 739   RIE: 1,179
UF   Career Orientation
BT   Planning
RT   Career Awareness
   Career Change
   Career Choice
   Career Education
   Career Exploration
   Career Opportunities
   Careers
   Goal Orientation
   Guidance
   Job Search Methods
   Occupational Choice
   Vocational Counseling
   Vocational Development

CAREERS   Jul. 1966
CIJE: 166   RIE: 234
NT   Science Careers
BT   Occupations
RT   Career Awareness
   Career Change
   Career Choice
   Career Education
   Career Exploration
   Career Opportunities
   Career Planning
   Employment

CARICATURES   Jul. 1970
CIJE: 7   RIE: 3
BT   Art Expression
   Characterization
RT   Comics (Publications)
   Creative Art
   Essays
   Parody
   Poetry
   Prose
   Satire
   Short Stories

NT = Narrower Term

BT = Broader Term

RT = Related Term

UF = Used For

SN = Scope Note (a brief definition telling how the term is used)

For more information, see pp. xxi-xxiv in the Thesaurus.

USE   CARPETING

CARRELS   Jul. 1966
CIJE: 27   RIE: 28
BT   Library Equipment
   Library Facilities
   Study Facilities

CARTOONS   Jul. 1966
CIJE: 75   RIE: 67
BT   Audiovisual Aids
RT   Animation
   Captions
   Childrens Television
   Color Presentation
   Comics (Publications)
   Films
   Film Study
   Freehand Drawing
   Illustrations

CASE (GRAMMAR)   May 1969
CIJE: 146   RIE: 55
BT   Linguistic Theory
RT   Form Classes (Languages)
   Grammar
   Language Patterns
   Language Universals
   Syntax

CASE RECORDS   Jul. 1966
CIJE: 60   RIE: 61
NT   Medical Case Histories
BT   Records (Forms)
RT   Case Studies
   Case Studies (Education)
   Confidential Records
   Data Collection
   Student Records

CASE STUDIES   Apr. 1970
CIJE: 757   RIE: 956
NT   Case Studies (Education)
   Cross Sectional Studies
   Facility Case Studies
   Longitudinal Studies
BT   Evaluation Methods
   Research
RT   Case Records
   Clinics
   Counseling

Example 2: Career Development: Use Vocational Development
(Look on the following sample Thesaurus page to find this
descriptor. You will note that this term is not an official
descriptor in the ERIC system and that another term must be used
instead. The correct descriptor for example 2 is Vocational
Development.)

CAPITALISM   Oct. 1974
CIJE: 19   RIE: 13
BT   Social Systems
RT   Communism
    Democracy
    Economics
    Government (Administrative Body)
    Imperialism
    Political Science
    Socialism
    United States History

CAPITALIZATION (ALPHABETIC)   Jul. 1966
CIJE: 4   RIE: 14
RT   Composition   Skills
    (Literary)
    Punctuation
    Sentence Structure
    Spelling
    Writing Skills

CAPITAL OUTLAY (FOR FIXED ASSETS)   Jul. 1966
CIJE: 29   RIE: 114
BT   Costs
RT   Capital
    Educational Finance
    Organization Size (Groups)

CAPTIONS   Dec. 1974
CIJE: 7   RIE: 3
SN   Explanatory comments or designations accompanying pictorial illustrations, usually as underlines or overlines
UF   Cutlines
RT   Cartoons
    Films
    Illustrations
    Journalism
    Layout (Publications)
    Newspapers
    Photographs

CARDIAC (PERSON)   Jul. 1966
CIJE: 29   RIE: 6
BT   Physically Handicapped
RT   Handicapped
    Health
    Physical Characteristics
    Physical Development

CARDIOVASCULAR SYSTEM   Jun. 1969
CIJE: 71   RIE: 31
UF   Circulatory System
    Vascular System
RT   Anatomy
    Blood Circulation
    Heart Rate
    Human Body
    Hypertension
    Physiology
    Zoology

CAREER AWARENESS   Feb. 1975
CIJE: 88   RIE: 629
SN   Appreciation for and understanding of the variety of types of careers — often refers to the initial phase of career education appropriate to the elementary school
UF   Occupational Awareness
    Vocational Awareness
BT   Vocational Development
RT   Career Choice
    Career Education
    Career Planning
    Careers
    Occupations

CAREER CHANGE   Jan. 1969
CIJE: 96   RIE: 121
UF   Employment Change
    Job Change
    Vocational Change
    Work Change
BT   Vocational Development
RT   Career Choice
    Career Opportunities
    Career Planning
    Careers
    Employment Opportunities
    Job Satisfaction
    Job Search Methods
    Labor Turnover
    Occupational Choice
    Occupational Mobility
    Promotion (Occupational)
    Vocational Adjustment

CAREER CHOICE   Jul. 1966
CIJE: 661   RIE: 806
BT   Selection
RT   Aspiration
    Career Awareness
    Career Change
    Career Education
    Career Exploration
    Career Planning
    Careers
    Employment Opportunities
    Occupational Aspiration
    Occupational Choice
    Occupations
    Personal Interests
    Vocational Interests
    Vocational Maturity

Career Development
use   VOCATIONAL DEVELOPMENT

CAREER EDUCATION   Oct. 1971
CIJE: 1,288   RIE: 3,237
SN   A comprehensive educational program that focuses on individual career development, beginning with grade 1 or earlier and continuing through the adult years
BT   Education
RT   Aerospace Education
    Career Awareness
    Career Choice
    Career Exploration
    Career Planning
    Careers
    Occupational Guidance
    Occupations
    Technical Education
    Vocational Development
    Vocational Education

CAREER EXPLORATION   Sep. 1975
CIJE: 60   RIE: 316
SN   Investigating occupational interest areas often through real or simulated job experience — frequently refers to the second phase of career education appropriate for grades 6 through 10
UF   Occupational Exploration
BT   Vocational Development
RT   Career Choice
    Career Education
    Career Planning
    Careers
    Occupational Choice
    Occupations
    Vocational Interests
    Vocational Maturity

CAREER LADDERS   May 1971
CIJE: 79   RIE: 203
SN   Hierarchy of occupational progression, with training, from entry level position to higher levels in the same occupation
UF   Job Ladders
BT   Occupational Mobility
RT   Adult Vocational Education
    Entry Workers
    Inservice Education
    Manpower Development
    Promotion (Occupational)
    Training

Career Objectives
use   OCCUPATIONAL CHOICE

CAREER OPPORTUNITIES   Jul. 1966
CIJE: 424   RIE: 613
BT   Opportunities
RT   Career Change
    Career Planning
    Careers
    Demand Occupations
    Employment Counselors
    Employment Opportunities
    Job Search Methods
    Recruitment
    Vocational Development

Career Orientation
use   CAREER PLANNING

CAREER PLANNING   Jul. 1966
CIJE: 739   RIE: 1,179
UF   Career Orientation
BT   Planning
RT   Career Awareness
    Career Change
    Career Choice
    Career Education
    Career Exploration
    Career Opportunities
    Careers
    Goal Orientation
    Guidance
    Job Search Methods
    Occupational Choice
    Vocational Counseling
    Vocational Development

CAREERS   Jul. 1966
CIJE: 166   RIE: 234
NT   Science Careers
BT   Occupations
RT   Career Awareness
    Career Change
    Career Choice
    Career Education
    Career Exploration
    Career Opportunities
    Career Planning
    Employment

CARICATURES   Jul. 1970
CIJE: 7   RIE: 3
BT   Art Expression
    Characterization
RT   Comics (Publications)
    Creative Art
    Essays
    Parody
    Poetry
    Prose
    Satire
    Short Stories

CARPENTERS   Feb. 1969
CIJE: 10   RIE: 37
BT   Skilled Workers
RT   Building Trades
    Cabinetmaking
    Trade And Industrial Education
    Woodworking

CARPETING   Aug. 1968
CIJE: 50   RIE: 41
UF   Carpets
BT   Architectural Elements
    Equipment
RT   Building Materials
    Flooring
    Maintenance
    Physical Design Needs
    Psychological Design Needs

Carpet Layers
use   FLOOR LAYERS

Carpets
use   CARPETING

CARRELS   Jul. 1966
CIJE: 27   RIE: 28
BT   Library Equipment
    Library Facilities
    Study Facilities

CARTOONS   Jul. 1966
CIJE: 75   RIE: 67
BT   Audiovisual Aids
RT   Animation
    Captions
    Childrens Television
    Color Presentation
    Comics (Publications)
    Films
    Film Study
    Freehand Drawing
    Illustrations

CASE (GRAMMAR)   May 1969
CIJE: 146   RIE: 55
BT   Linguistic Theory
RT   Form Classes (Languages)
    Grammar
    Language Patterns
    Language Universals
    Syntax

CASE RECORDS   Jul. 1966
CIJE: 60   RIE: 61
NT   Medical Case Histories
BT   Records (Forms)
RT   Case Studies
    Case Studies (Education)
    Confidential Records
    Data Collection
    Student Records

CASE STUDIES   Apr. 1970
CIJE: 757   RIE: 955
NT   Case Studies (Education)
    Cross Sectional Studies
    Facility Case Studies
    Longitudinal Studies
BT   Evaluation Methods
    Research
RT   Case Records
    Clinics
    Counseling

(Look for the descriptor Vocational Development on the following sample page from the Thesaurus.)

**VISUALLY HANDICAPPED ORIENTA-
TION**   Jul. 1966
   CIJE: 33   RIE: 40
BT   Orientation
RT   Blind
   Echolocation
   Mobility Aids
   Space Orientation
   Travel Training
   Visually Handicapped
   Visually Handicapped Mo-
     bility

Visual Materials
USE   VISUAL AIDS

VISUAL MEASURES   Jul. 1966
   CIJE: 24   RIE: 92
SN   Test items presented in pic-
   ture form only
UF   Non Discursive Measures
   Pictorial Tests
BT   Tests
RT   Perception Tests
   Pictorial Stimuli
   Prognostic Tests
   Projective Tests
   Tactual Visual Tests
   Visual Aids

Visual Media
USE   VISUAL AIDS

VISUAL PERCEPTION   Jul. 1966
   CIJE: 962   RIE: 587
NT   Stereopsis
   Vision
   Visual Acuity
BT   Perception
RT   Color
   Color Planning
   Dimensional Preference
   Eyes
   Eye Voice Span
   Figural Aftereffects
   Glare
   Illumination Levels
   Partially Sighted
   Pictorial Stimuli
   Sensory Training
   Tachistoscopes
   Vision Tests
   Visualization
   Visual Learning
   Visual Literacy
   Visual Stimuli

Visual Scanners
USE   OPTICAL SCANNERS

VISUAL STIMULI   Jul. 1966
   CIJE: 648   RIE: 325
NT   Pictorial Stimuli
BT   Stimuli
RT   Association Tests
   Electrical Stimuli
   Tachistoscopes
   Verbal Stimuli
   Vision
   Visual Discrimination
   Visual Learning
   Visual Literacy
   Visual Perception

VOCABULARY   Jul. 1966
   CIJE: 1.022   RIE: 1.076
UF   Terminology
NT   Aviation Vocabulary
   Banking Vocabulary
   Basic Vocabulary
   Chemical Nomenclature
   Developmental Vocabulary
   International Trade Vocabu-
     lary
   Mathematical Vocabulary

   Medical Vocabulary
   Sight Vocabulary
   Word Lists
RT   Adjectives
   Adverbs
   Definitions
   Glossaries
   Glottochronology
   Language Arts
   Lexicology
   Linguistic Borrowing
   Readability
   Reading
   Subject Index Terms
   Thesauri
   Verbs
   Vocabulary Development
   Vocabulary Skills
   Word Frequency

Vocabulary Building
USE   VOCABULARY
     DEVELOPMENT

VOCABULARY DEVELOPMENT
     Jul. 1966
   CIJE: 463   RIE: 668
UF   Vocabulary Building
BT   Language Development
RT   Developmental Vocabulary
   Reading Development
   Retarded Speech Develop-
     ment
   Sight Vocabulary
   Verbal Development
   Vocabulary

VOCABULARY SKILLS   Jul. 1966
   CIJE: 65   RIE: 129
BT   Language Skills
RT   Context Clues
   Vocabulary

Vocal Ensembles
USE   CHORUSES

VOCAL MUSIC   Oct. 1966
   CIJE: 82   RIE: 49
SN   Musical compositions writ-
   ten for voices, either solo
   or chorus
NT   Art Song
   Choral Music
BT   Music
RT   Choruses
   Music Activities
   Musical Composition
   Music Education
   Music Techniques
   Opera
   Singing

VOCATIONAL ADJUSTMENT
     Jul. 1966
   CIJE: 211   RIE: 369
UF   Employment Adjustment
   Job Adjustment
   Work Adjustment
BT   Adjustment (To Environ-
     ment)
RT   Adjustment Problems
   Career Change
   Emotional Adjustment
   Employer Employee Rela-
     tionship
   Job Enrichment
   Job Satisfaction
   Occupational Mobility
   Personal Adjustment
   Skill Obsolescence
   Social Adjustment
   Vocational Counseling
   Vocational Education
   Vocational Maturity
   Vocational Training Centers

   Work Attitudes
   Work Study Programs

VOCATIONAL AGRICULTURE
     Jul. 1966
   CIJE: 506   RIE: 410
BT   Curriculum
RT   Agricultural Chemical Occu-
     pations
   Agricultural Occupations
   Agricultural Supply Occupa-
     tions
   Agriculture
   Crop Processing Occupa-
     tions
   Farm Occupations
   Forestry Aides
   Forestry Occupations
   Grounds Keepers
   Nursery Workers (Horticul-
     ture)
   Off Farm Agricultural Occu-
     pations
   School Shops
   Supervised Farm Practice
   Vocational   Agriculture
     Teachers

**VOCATIONAL AGRICULTURE TEACH-
ERS**   Jul. 1966
   CIJE: 253   RIE: 100
BT   Vocational   Education
     Teachers
RT   Agricultural Education
   Vocational Agriculture

VOCATIONAL APTITUDE Aug. 1966
   CIJE: 43   RIE: 108
UF   Vocational Talents
BT   Aptitude
RT   Academic Aptitude
   Employment Qualifications
   Performance
   Talent

Vocational Aspiration
USE   OCCUPATIONAL
     ASPIRATION

Vocational Awareness
USE   CAREER AWARENESS

Vocational Change
USE   CAREER CHANGE

Vocational Choice
USE   OCCUPATIONAL CHOICE

Vocational Competencies
USE   JOB SKILLS

VOCATIONAL COUNSELING
     Jul. 1966
   CIJE: 730   RIE: 986
UF   Occupational Counseling
BT   Counseling
RT   Adult Counseling
   Career Planning
   Job Placement
   Occupational Guidance
   Occupational Tests
   Occupations
   Vocational Adjustment
   Vocational Development
   Vocational Education
   Vocational Interests
   Vocational Training Centers

VOCATIONAL DEVELOPMENT
     Jul. 1966
   CIJE: 648   RIE: 1.422
UF   Career Development
NT   Career Awareness
   Career Change
   Career Exploration
   Vocational Maturity
BT   Individual Development
RT   Career Education
   Career Opportunities
   Career Planning
   Occupational Choice
   Occupational Guidance
   Occupational Information
   Vocational Counseling
   Vocational Interests
   Vocational Training Centers

VOCATIONAL DIRECTORS
     Jul. 1966
   CIJE: 15   RIE: 69
UF   Technical Education Direc-
     tors
   Vocational Education Direc-
     tors
BT   Administrative Personnel

VOCATIONAL EDUCATION
   Jul. 1966
   CIJE: 2.175   RIE: 5.692
SN   Formal preparation for an
   occupation below the bac-
   calaureate degree
UF   Occupational Courses
   Occupational Training
   Vocational Training
NT   Adult Vocational Education
   Agricultural Education
   Business Education
   Cooperative Education
   Distributive Education
   Health Occupations Educa-
     tion
   Occupational Home Eco-
     nomics
   Prevocational Education
   Technical Education
   Trade And Industrial Educa-
     tion
BT   Education
RT   Apprenticeships
   Career Education
   Commercial Art
   Consumer Education
   Continuation Education
   Cosmetologists
   Custodian Training
   Engineering Education
   Fluid Power Education
   Hand Tools
   Industrial Arts
   Industrial Education
   Job Training
   Manpower Development
   Post Secondary Education
   Pretechnology Programs
   Project Training Methods
   Semiskilled Workers
   Service Workers
   Skilled Workers
   Technical Institutes
   Vocational Adjustment
   Vocational Counseling
   Vocational   Education
     Teachers
   Vocational Interests
   Vocational Rehabilitation
   Vocational Retraining
   Vocational Schools
   Vocational Training Centers

Vocational Education Directors
USE   VOCATIONAL DIRECTORS

4. Locate some copies of the monthly ERIC publication <u>Resources in Education</u> (RIE).

   RIE is published monthly, so it's a good idea to examine more than one issue. This way you're sure of getting the latest information.
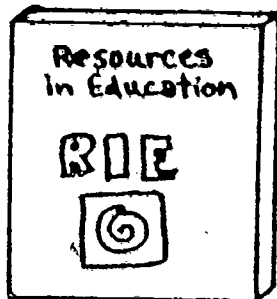
5. Find the "Subject Index" section in the back of a copy of RIE.

6. Find one of the descriptors you chose in Step 3 in the Subject Index. List the ED number for at least one document you find under that descriptor.

   (Look at the following sample Subject Index page from RIE. Under the descriptor Vocational Development you will see a list of titles. An appropriate title has been selected, and the ED number recorded.)

   Example: <u>ED 143 817</u>

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Sample Page from RIE

7. Find the "Document Resumes" section near the front of a copy of RIE. Locate the ED number you chose in Step 6.

(Look at the following sample Document Resumes page from RIE. The abstract from ED 143 817 is highlighted.

programs, and centers (ROP/Cs) in California reviewed during 1974-75 (The followup study of the impact of DROVE is the third phase of DROVE, a three-phased, structured, consultant-directed evaluation system designed to improve the effectiveness and efficiency of secondary school district vocational education management systems, and to provide local, State, and Federal decisionmakers with current management information.) Some of the findings presented follow District Directors of vocational education rated 91% of their report recommendations as being reasonable; they also rated 78% of their recommendations as being implemented or in the process of implementation. Fourteen of the 19 district superintendents reported positive change of improvement in their district as the result of DROVE, and 16 of the 19 district vocational education coordinators reported change in their district attributable to DROVE. Recommendations note that DROVE should be continued, as the DROVE process is a vehicle for improvement of vocational education program management and a source of valuable information for State and Federal decisionmakers. Additional information on DROVE is appended to this report. (BL)

ED 143 814   **08**   CE 012 200
Ryan, Charles W.   And Others
Career Education in Higher Education. An Infusion Model.
Maine Univ., Orono. Coll. of Education.
Spons Agency—Office of Education (DHEW), Washington, D.C.
Pub Date 77
Grant—300-76-0335
Note—191p.
EDRS Price MF-$0.83 HC-$10.03 Plus Postage.
Descriptors—Career Education, College Teachers, Curriculum Development, Educational Objectives, Faculty Development, Fused Curriculum, Higher Education, Inservice Teacher Education, Instructional Materials, Learning Activities, Models, Post Secondary Education, Program Descriptions, Units of Study
Identifiers—Husson College ME, University of Maine

This document was designed to provide a vehicle for educators in postsecondary institutions to (1) develop a philosophical position regarding the career education concept, (2) consider the philosophical implications of career education as related to curriculum reform in institutions of higher education, and (3) develop procedures for relating the content of curriculum to the needs of students enrolled in postsecondary institutions. The major portion of this document is comprised of instructional units which represent faculty and administrative efforts to infuse career education concepts at the postsecondary level, using two schools as examples—University of Maine and Husson College. Sixteen sample units (University of Maine) intended for use in the areas of education and human development and nine sample units (Husson College) intended for use in business education and business administration are included. Each instructional unit includes an introduction, unit goals, unit objectives, learning activities, resources, evaluation, and time constraints, as required by the model used by staff for the production of these units. A separate chapter (10 pages) illustrates the approach developed to train faculty and staff in the philosophy and concepts of career education. (TA)

ED 143 815   CE 012 253
Venereal Disease. Consumer Health Education.
Arkansas Univ., Fayetteville. Cooperative Extension Service.
Spons Agency—Department of Agriculture, Washington, D.C.
Bureau No—B-5.9
Note—24p.
EDRS Price MF-$0.83 HC-$1.67 Plus Postage.
Descriptors—Adult Education, Community Education, Curriculum Guides, Disease Control, Health Education, Hygiene, Parent Education, Preventive Medicine, Program Guides, Resource Materials, Secondary Education, Venereal Diseases
Designed to be used by health educators when teaching youths and their parents about the control of venereal disease (syphilis and gonorrhea), this booklet includes the following: (1) a two-page teaching plan consisting of objectives for

both youths and adults along with notes on subject matter, methods (including titles of films and printed materials), procedure, target audience, resources (persons and materials), and follow-up and evaluation; (2) a brief outline for a youth program about venereal disease (VD) control covering potential audience groups, lecture presentation topics and film, title of a pamphlet to hand out, and suggested evaluation methods; (3) a brief outline for a VD control program for young and middle-aged adults covering potential target groups, presentation topics, and film, (4) suggestions for including VD education with other programs and hints on how to reach youth on the topic of VD; (5) brief descriptions of five recommended films; (6) a listing of recommended printed materials, the name and address of their source, and the intended target audience; (7) fifty questions and answers about VD control; and (8) six pages of content on syphilis and gonorrhea including nature and cause, symptoms, effects, detection methods, treatment, most susceptible persons, preventative measures, and screening and/or treatment contact. (EM)

ED 143 816   CE 012 294
General Business for Economic Awareness. Curriculum Guide.
District of Columbia Public Schools, Washington, D.C. Dept. of Career Development.
Pub Date 77
Note—161p. Pages 82 and 83 (containing a cross-term puzzle) were copyrighted and therefore removed. They are not included in the pagination
EDRS Price MF-$0.83 HC-$8.69 Plus Postage.
Descriptors—Behavioral Objectives, Business Education, Business Subjects, Consumer Economics, Consumer Education, Curriculum Guides, Daily Living Skills, Learning Activities, Money Management, Secondary Education, Skill Development
Designed to assist secondary teachers of general business courses, this guide suggests student objectives, content, and activities as a point of departure for teaching general business particularly, as it relates to economic awareness. Eleven instructional units are included: Business All Around Us; Finding Information; Career Exploration; Money; Planning and Spending Income; Banking Services; Investment Opportunities; Taxes, Insurance, Filing Information; Citizenship, Legal Relations, and Government Regulations; and Using Communication, Transportation, and Travel. In addition to the specific objectives, related content, and suggested student activities (which are presented in a three-column format), each unit includes overall objectives and a suggested vocabulary. Brief information on job families (or clusters) and a bibliography of audiovisual and other materials are appended. (SH)

ED 143 817   CE 012 321
A Model to Implement Career Education.
Robbinsdale Independent School District 281, Minn.
Note—24p.; For related documents see CE 012 321-323; Best copy available
EDRS Price MF-$0.83 HC-$1.67 Plus Postage.
Descriptors—Career Awareness, Career Education, Career Exploration, Career Opportunities, Career Planning, Cluster Grouping, Models, Occupational Choice, Program Development, Vocational Development, Vocational Interests
A brief discussion of a school/life model of career development, designed to provide for elimination of curriculum overlap, consistent evolution and integration of the career education concept, and understanding and communication with participating staff, is presented in this document. Eight elements are listed representing the main factors considered in theories of career development and education: (1) self awareness, (2) educational awareness, (3) career awareness, (4) economic awareness, (5) decisionmaking, (6) competency/skill awareness, (7) employment skills, and (8) attitudes and appreciations. The following four areas designed as "clusters" are also contained as a guide for using the world of work with the eight elements: Community clusters (e.g. business/manufacturing/construction); USOE 15 occupational clusters; subject matter clustering (math, science, social studies, etc.), and personal clustering (emphasizes the individual's capacities, interests, and opportunities). Appendixes comprise the major portion of this manual. "Career Education: A Practical Ap-

proach," by C. Halling, is appended to add dimension to the model overview. Additional appendixes include basic tenets of career education, definitions of the eight career education elements, and clustering concept examples. (BL)

ED 143 818   08   CE 012 344
Mason County Career Education, K-Adult, Vol. I. Teacher's Instructional Manual for Early Elementary Education, K-3.
West Virginia State Dept. of Education, Charleston.
Spons Agency—Office of Education (DHEW), Washington, D.C.
Note—285p.; For a related document see CE 012 344-346
EDRS Price MF-$0.83 HC-$15.39 Plus Postage.
Descriptors—Behavioral Objectives, Career Awareness, Career Education, Curriculum, Curriculum Guides, Grade 1, Grade 2, Grade 3, Kindergarten, Learning Activities, Motivation Techniques, Occupational Clusters, Primary Education, Resource Materials, Teacher Developed Materials
Identifiers—West Virginia, West Virginia (Mason County)
The first of a three-volume set, this career education instructional manual for grades K-3 was developed primarily by teachers. The broad goals of the teaching units are to provide each student with an awareness of the various career fields in the world of work and to instill in each individual the worthiness of work. Based on fifteen occupational clusters, these units are intended as guides or references and not as restricted entities. To aid the teacher in the manual's use, the following topics are discussed before the teaching units are presented: the teacher's function, the objectives, the unit method in presenting occupational information, suggested steps in developing a unit plan, evaluation, and correlation of subject areas. The teaching units are then presented by grade level: two units are included specifically for the early childhood level, eight units for grade 1, eight units for grade 2, and seven units for grade 3. The units follow the same general format by first presenting the instructional objectives, and then the motivational and correlational techniques, descriptions of the activities, predicted outcomes and evaluation strategies, and resources for each unit activity. A compiled list of resources is found at the end of each unit. Other additional information, such as sample field trip permission forms and instructions for specific activities, are included in the last segment of this document. (BM)

ED 143 819   08   CE 012 345
Mason County Career Education, K-Adult. Vol. II. Teacher's Instructional Manual for Upper Elementary Education, 4-6.
West Virginia State Dept. of Education, Charleston.
Spons Agency—Office of Education (DHEW), Washington, D.C.
Note—224p.; For a related document see CE 012 344-346
EDRS Price MF-$0.83 HC-$11.37 Plus Postage.
Descriptors—Behavioral Objectives, Career Awareness, Career Education, Curriculum Guides, Elementary School Curriculum, Grade 4, Grade 5, Grade 6, Intermediate Grades, Learning Activities, Motivation Techniques, Occupational Clusters, Resource Materials, Teacher Developed Materials
Identifiers—West Virginia, West Virginia (Mason County)
The second of a three-volume set, this career education instructional manual for grades 4-6 was developed primarily by teachers. The broad goals of the teaching units are to provide each student with an awareness of the various career fields in the world of work and to instill in each individual the worthiness of work. Based on fifteen occupational clusters, these units are intended as guides or references and not as restricted entities. To aid the teacher in the manual's use, the following topics are discussed before the teaching units are presented: the teacher's function, the objectives, the unit method in presenting occupational information, suggested steps in developing a unit plan, evaluation, and correlation of subject areas. The teaching units are then presented by grade level: seven units are included specifically for grade 4, six units for grade 5, and five units for grade 6. The units follow the same general format by first presenting the instructional objectives for each

8. Read the resume.

   It provides information about the author, title, date published, and length, and an abstract explaining the document's contents.

   (Look back at the Resume for ED 143 817 on the previous page.)

   As you read the resume, you will note that the document was written by an Independent School District and describes a school/life model of career development.

9. If you want to read the entire document, locate it by ED number in the ERIC microfiche collection.

   Each ERIC document has its own ED number. The microfiche are filed according to this number.

   If you want to find other documents, go back to Step 4 and find another ED number.

   Other data bases, such as Psychological Abstracts or AIM/ARM, can be searched in a similar fashion. They may use different kinds of Thesauri or descriptors, but the basic procedure is still the same.

   The following pages summarize the method for designing a manual search strategy using ERIC materials.

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Designing a Manual Search Strategy
Using ERIC Materials

1. State your search question. *Ideas or models for planning and*

designing a Career Development program involving the school and

community

2. Locate the Thesaurus of ERIC descriptors.

3. Using the list of descriptors in the Thesaurus, identify at least two descriptors to use in searching your topic.

Career Education

Vocational Development

4. Locate some copies of the monthly ERIC publication Resources in Education (RIE).

5. Find the "Subject Index" section in the back of a copy of RIE.

6. Find one of the descriptors you chose in Step 3 in the Subject Index. List the ED number for at least one document you found under that descriptor.

ED·143 817

7. Find the "Document Resumes" section near the front of a copy of RIE. Locate the ED number you chose in Step 6.

8. Read the resume. It provides information about the author(s), title, date published, and length, and an abstract explaining the document's contents.

9. If you want to read the entire document, locate it by ED number in the ERIC microfiche collection. If you want to find more documents, go back to Step 4 and find another ED number.

Name _____

Data Base Comprehension Check

1. The first thing to do when using a data base is _____

_____

2. Computer searching and manual searching are similar in the following way: _____

3. Indexing terms used in the ERIC system, called descriptors, are found in the _____.

4. You should use a minimum of _____ descriptors in searching the ERIC system.

5. Resources in Education (RIE) is published _____ time(s) a year.

6. A resume for each ERIC document is found in _____.

7. To make them easy to locate, ERIC documents are filed by _____

_____

8. A small piece of microfilm containing photographed printed pages is called a _____.

9. ERIC documents can be obtained in two forms: _____

and _____.

Number correct: _____/9   38

C. Using Human Resources

You are now familiar with several nonhuman resources, including computerized data bases, and thus have come a long way toward completing the first step, the "Resource" part, of the RIM. This first step has one more component: human resources.

Human resources are, of course, harder to quantify, because each of you will know individuals from different communities with different sets of qualifications. If you are like Patsy Prestige, you may overlook some very valuable information sources that are close to home. This list should set you thinking about the people you know in a different light.

Outside experts. These "big name" people may not be near you and may be too expensive for your budget, but there are inexpensive ways to profit from their expertise. Perhaps you can call or write to them, and they can refer you to someone closer to home, or tell you if they have trained someone in your area. Or maybe you can attend a pre- or postconvention workshop they are offering.

Colleagues. Consider the people you have worked with in the past or are working with now. Besides their formal training, think about special experiences they have had such as travel or unusual summer jobs that might be useful to your needs.

Students. Their school projects, extracurricular activities and hobbies may make them very knowledgeable in a particular area. They can be resource people or be a means of alerting you to other resources.

Community members. Check on the Chamber of Commerce, service organizations, business associations, public relations departments of companies, distributive education programs and community referral agencies. In addition to groups, think in terms of individuals, such as parents or

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senior citizens.

Professional association members. The state level is a good place to start. Finding a speaker or presenter at this level can often save money. Again, look for pre- and postworkshops tacked onto regular conventions.

But just thinking of good human resources is not enough. Just as you can learn to search a data base or a card catalogue, you can learn to make the best use of a human resource. Of course, each situation is different. But some ideas apply almost any time you use a human resource. Read the following suggestions. (Perhaps you can add some of your own as well.) Then you will have a chance to practice using them.

1. Set up a time in advance to discuss your question. Whether you are asking a student to speak at a meeting or asking a professional to do a 3-day workshop, you need the person's undivided attention. Give him/her a chance to arrange it for you. Ask the person, "When would be a convenient time for us to talk?"

2. Let people know what you plan to discuss. That way they have time to collect ideas and materials before the interview.

3. Arrange time limits and stick to them. If you know you have only 15 minutes, you can try to obtain your information quickly without imposing. If the person can spend an hour with you, you won't need to feel so rushed.

4. Ask for other resources. When people have told you as much as they can, ask for suggestions about other people, books, or items of interest to you. Ask, "Could you suggest some other helpful resources?"

5. Know what you want to find out. Have a few specific questions ready before the interview. Even if informants are expert in their field, they don't know what YOU need to find out until YOU tell them.

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6. __Know about the person's background.__ Before the interview, find out about specific areas of expertise--what the person has done, what s/he is interested in--especially as it relates to your needs.

7. __Have interviewees suggest topics or questions.__ They may be able to point out aspects you have not thought of: Ask, "Do you have suggestions or ideas that we might use?"

8. __Ask some open-ended questions.__ If you ask, "Are you in favor of competency-based training programs?" all you will hear is "Yes" or "No." Try instead, "What use have you made of competency-based training programs in your setting?"

9. __Pose a hypothetical question.__ Suggest, "Suppose there were no time constraints..." or "If you were in charge of this situation, what would you do?" This may lead to interesting ideas you would not have thought of otherwise.

10. __Ask the interviewee to prioritize.__ Say, "Which of the ideas we have discussed seem most important or useful?" Then you can compare priorities and discuss the differences.

11. __Use a tape recorder or take brief notes.__ If you do the latter, be sure to fill in more detail immediately after the interview.

12. __Conclude by summarizing the main points.__ This clarifies what has been said. Say, "I believe we have covered these points...."

13. __Use the telephone.__ Many people are reluctant to conduct interviews by phone, but a study carried out by the Survey Research Center does not justify such reluctance. Researchers found that "personal and telephone interviews are comparable" in the amount of information conveyed, except possibly on private or socially undesirable topics. They conclude that, "In view of the lower costs and only slight decreases in

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response rates, the use of the telephone as an interview method seems a viable alternative to personal interviewing" (Henson, Roth, & Cannell, 1974).

Perhaps the best way to show you why these ideas are important is through a small demonstration. Then you will have a chance to try them out yourself. Your facilitator will provide the instructions for this activity.

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Name_____

Interviewer Rating Sheet

Put a check in the appropriate column to rate your partner's performance
on each of the following items:

Rating Scale

3 = very good

2 = acceptable

1 = needs improvement

	Rating Scale		
	1	2	3
Call in advance and specify topics of interest			
Keep within time limits			
Let interviewee know what you plan to discuss			
Ask for other resources			
Know what you want to find out			
Know about the person's background			
Have the interviewee suggest topics or questions			
Ask open-ended questions			
Pose hypothetical questions			
Ask the interviewee to prioritize			
Use a tape recorder or take notes			
Conclude by summarizing the main points			
Use the telephone (as part of role play)			

Total ____ ____ ____

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Discussion Questions

1. As interviewer, what did you find most difficult? Can you think of ways to make it easier next time? ,

2. As interviewer, what suggestions or ideas did you find most helpful?

3. What things would you change about the interview you conducted if you had it to do over?

4. As interviewee, what did you find out that will help you next time you interview someone?

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Step 2. Evaluating and Choosing Resources

So far you have become a good Roger Resource. You are familiar with quite a few resources, human and nonhuman, which you can use to fill particular needs. But now you are ready to help the committee take the next step: evaluating different resources, comparing their advantages and disadvantages, and selecting ones to help meet your unique needs.

Here is a list of factors which should be considered when judging the worth of resources for your own purposes. Not all of them apply to any one resource. Further, no factor is inherently good or bad. It must be examined within the context of your setting. When evaluating a resource, decide whether each relevant factor is an advantage or a disadvantage. For example, cost is an advantage when a resource is inexpensive or fits into your budget. It is a disadvantage if the resource is expensive and your budget is low.

Factors to Consider in Evaluating Resources

a. accessibility (including time to obtain)
b. cost
c. how current
d. racial, sexual, ethnic, religious, or age perspective
e. grade, reading and/or comprehension level
f. intended audience
g. skill required to use
h. permanence or re-usability
i. equipment needed to use
j. soundness of theoretical base
k. flexibility, adaptability
l. responsiveness to future trends
m. authoritativeness/validity
n. instructional approach

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An easy way to apply these evaluative factors is to make two lists, as shown below.

Advantages	Disadvantages
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

To give you practice in evaluating and choosing resources, let's go back to the committee described earlier. From the way the first meeting went, it sounds as if they could really use some help! In order for you to select resources that will be suitable to the committee's needs, you need to have some more information about their situation. (This information is modeled after a real city in the central part of the country that we will call Midville.)

> This committee's task is to improve the level of career guidance in the Midville schools and community. The members have no particular time constraints, and they have a budget of approximately $800 for next year. Midville, a town of 3,500 residents, is a rural community with quite a bit of truck farming. It also has several good-sized industries: a recreational vehicles manufacturer and a few construction and building materials companies. The population is mostly Caucasian, and the people are strongly religious and fairly conservative. These attitudes affect many town council and School Board policies

and decisions., The Historical Society and the Chamber of Commerce are two of the many active civic groups. Despite its conservative tendencies, Midville is located in a high-growth area and has an excellent tax base.

There are two elementary schools and a consolidated middle/high school which is already expanding its facilities. The classrooms are modern and well equipped. The existing resource room has a good selection of A-V equipment. About half the senior class is in college preparatory courses; the other half takes classes in homemaking, welding, graphic arts, and other vocational-technical areas.

This vignette provides the background for your consideration of some of the resources that you and others have brought to this workshop. You will evaluate each one in turn, then list them in the order of their suitability for use by Midville's committee. Your facilitator will give you further instructions.

Name _____

Resource Evaluation Form

Resource name _____

Advantages	Disadvantages
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

Name _____

Resource Evaluation Form

Resource name _____

Advantages	Disadvantages
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

Name_____

Resource Evaluation Form

Resource name _____

Advantages	Disadvantages
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

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Step 3. Planning for Action

We have come a long way since that first committee meeting. We have shown Patsy Prestige that she _can_ find many useful resources without traveling around the world to do it. Roger Resource has discovered that he can save time and energy by selectively evaluating resources, instead of getting turned on to everything in sight. And Eunice has almost run out of excuses; perhaps she is beginning to feel that the task isn't so hopeless after all.

But what about Johnny Journal? We still need to take one more step, and show him how to put to use some of the many resources he is so fond of describing.

Sometimes a resource has to be adapted before it can be implemented successfully. For example, in the professional resource library you might find a 3-day modular workshop on just the subject you have in mind-- but you have only two inservice days available.' Don't put it back on the shelf! By rearranging the time schedule, leaving out some activities, and perhaps shortening others, you can probably tailor it to fit your needs perfectly.

Even when a resource seems ideally suited to your needs, just acquiring it is not enough. Suppose, for instance, that some of the teachers want to learn about small group techniques that can be used in the classroom, and you have found an excellent book on the subject. Don't just tell them about it and leave it in the library. You might take a few minutes at a faculty meeting to share some ideas in the book and lend it to someone who shows interest. Or, arrange a small consultation session with interested teachers and make them aware of some techniques they

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might try. Or enter the classroom of an interested teacher and demonstrate some of the ideas.

Whether you adapt a resource or implement it "as is," you need to consider briefly just what the use of your particular choice will entail in staff time, facilities, student time, orientation, and a host of other possible considerations.

In filling out your Resource Action Plan Guide, consider technical details (like signing up for the auditorium and finding a projector that works) as well as larger issues (like getting administrative support and funding if necessary). For practice, use the form on the following page to help the Career Development Committee implement some resources you selected for them in the previous exercise. Your facilitator will provide the instructions for the activity.

Resource Action Plan Guide

Who will be responsible?	What will be done?	By when?
1.		
2.		
3.		
4.		
5.		

IV. CUSTOMIZING THE "RIM" (SUMMARY AND APPLICATION)

Using the example of the unresourceful Career Development Committee, you have now worked through all three steps of the RIM. You have examined a large number of resources, both human and nonhuman, and acquired specific skills in using some of them. You have evaluated different resources and practiced choosing ones appropriate to a particular setting. And you have made a sample action plan. Hopefully many of your feelings of uncertainty have been resolved in the process, and you are beginning to think of yourself as one who can be truly resource resourceful.

The real test comes, of course, when you begin to apply what you have learned in your own setting. And now's the time to give it a try. Your final exercise will be to "customize" the RIM--to work through all the steps using a situation from your own experience--one that you can really deal with when you return home.

Begin by clarifying in your mind a problem or area of need for which you require resources. Write it here: _____

_____

_____

Now, back to the three steps of the RIM.

1. Consider available resources.

You should now have a number of options to choose from. You may wish to refer to the Current Resource Inventory you completed earlier (p. 14). Select three that seem potentially useful and write them below:

1. _____

2. _____

3. _____

2. Evaluate your resources and choose appropriate one(s).

If you need to, look back to page 41 to refresh your memory about the list of evaluative criteria. Then turn back to this page and use the following forms to evaluate your choices.

Name _____

Resource Evaluation Form

Resource name _____

Advantages	Disadvantages
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

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Name

Resource Evaluation Form

- Resource name

Advantages	Disadvantages
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

Name _____

Resource Evaluation Form

Resource name _____

Advantages	Disadvantages
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

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3. Develop a Resource Action Plan.

You've already done this once for practice. This time it's the real thing! Choose one resource that seems useful and use the following form to plan your implementation strategy.

Resource Action Plan Guide

Who will be responsible?	What will be done?	By when?
1.		
2.		
3.		
4.		
5.		

V. RESOURCE ATTITUDES POSTASSESSMENT

Remember Eunice Excuse? We said earlier that she, of all the Committee members, might have the most difficulty becoming resource resourceful because having a negative attitude becomes a habit that is very difficult to change. But now even Eunice is coming around. .She has seen that resource use can be quick, easy, inexpensive, and effective--and her objections seem to be melting away.

This program is based on the idea that as you acquire more knowledge and skills in using resources, your attitudes about them become increasingly positive. Perhaps this has been true for you. On the next page is a copy of the same Resource Attitudes Inventory that you used at the beginning of the workshop. Please fill it out again to reflect your present attitudes.

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Name

Resource Attitudes Inventory

<table>
<tr><td></td><td>strongly
agree</td><td></td><td></td><td>strongly
disagree</td></tr>
</table>

1. I am familiar with a lot of re-
    sources; I don't feel I lack
    resource information.

    |———————/———————/———————/———————/
    5   4   3   2   1

2. I feel comfortable about using
    data bases; they're easy to
    access.

    |———————/———————/———————/———————/
    5   4   3   2   1

3. I feel I know how to make the
    best use of the human resources
    in my setting.

    |———————/———————/———————/———————/
    5   4   3   2   1

4. I am good at evaluating resources
    and choosing appropriate ones.

    |———————/———————/———————/———————/
    5   4   3   2   1

5. I think you can acquire many use-
    ful resources without spending a
    lot of money.

    |———————/———————/———————/———————/
    5   4   3   2   1

6. Once I've acquired a resource, I
    feel I know how to implement it
    effectively.

    |———————/———————/———————/———————/
    5   4   3   2   1

7. It's easy to adapt resources
    which don't exactly fit my needs.

    |———————/———————/———————/———————/
    5   4   3   2   1

8. When I need a resource, I am con-
    fident that I can find what I'm
    looking for.

    |———————/———————/———————/———————/
    5   4   3   2   1

9. When I have a task to complete, I
    feel that finding an appropriate
    resource is worth the time and
    effort.

    |———————/———————/———————/———————/
    5   4   3   2   1

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APPENDICES

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APPENDIX A: DATA BASES

Characteristics:

Cost: manual searches free to user; computer searches variable in
cost

Kind of products: may include books, journals, government documents,
unpublished manuscripts, research projects; microfiche and/or
paper copies

Mailing list: periodic lists of publications and services available
from many vendors and information centers

Availability: usually located in libraries or media centers; some
accessed by phone; some computer searches requested and received
by mail

How current: continuous addition of information

Distinctive features: amount and variety of information

The following data bases have been selected as the ones most relevant
to counselors and educators.

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ACRONYM:	AAHPER - IRUC
NAME OF DATA BASE:	Physical Education and Recreation for the Handicapped: Information and Research Utilization Center (IRUC)
MAJOR AREA(S):	Physical education/adapted physical education, recreation/therapeutic recreation, health, dance, safety, sports, aquatics, camping, movement, perceptual-motor, outdoor education for handicapped persons of all ages
→ SUBJECTS COVERED:	Publications, periodicals, research (published/unpublished), child-use and professional materials dealing with physical education/adapted physical education, recreation/therapeutic recreation, sports, dance/rhythms, camping/outdoor education, movement, motor/perceptual motor, health, safety, aquatics/swimming, and related areas involving impaired, disabled, and handicapped persons.
SIZE OF DATA BASE:	Continues to grow including books, periodicals, newsletters, research reports, project reports, curriculum materials/guides, etc.
DATE ESTABLISHED:	IRUC - 1972; unit on programs for the handicapped, 1968
PUBLICATIONS/ PRINT JOURNALS:	*Information Updates*—brief summaries of current literature *IRUC Briefings*—newsletter (four times per year)
→ UPDATE FREQUENCY:	Monthly (*Information Updates*)
→ THESAURUS/SEARCH AIDS:	Requests are presented in individual's own words; key descriptors are requested from individual to assist in search. Search aids for staff and internal purposes only.
→ TYPES OF SOURCE DOCUMENTS:	Over 250 journals, newsletters, and other periodicals received regularly.
FORMS OF RETRIEVABLE INFORMATION:	Publications, newsletters, and xeroxed copies of reports, unpublished materials, and other fugitive items.
→ DOCUMENT COPIES AVAILABLE:	Yes
→ REMARKS:	IRUC basically is not computerized (some resource listings and information about programs are computerized). Use is not restricted although some services and materials are on a differential cost basis for members and non-members of AAHPER. Users may call or write with requests for referrals or specific information.
INFORMATION CONTACT:	Julian U. Stein or Wanda Born AAHPER - IRUC 1201 - 16th Street, N.W. Washington, D.C. 20036 (202) 833-5547/4396
DATE VERIFIED:	January 31, 1978
SYSTEMS/VENDORS:	None
CONDITIONS:	No charges for telephone referrals; publication prices vary; IRUC Briefings, $4.00 per year; reprint services at 10 cents per xeroxed page.

ACRONYM:	AIM/ARM
NAME OF DATA BASE:	AIM/ARM (ABSTRACTS OF INSTRUCTIONAL MATERIALS/ ABSTRACTS OF RESEARCH MATERIALS)
MAJOR AREA(S):	Vocational and technical education

SUBJECTS COVERED: A wide range of topics in vocational and technical education, including such sub-fields as: agricultural education, business and office education, consumer education, distributive education, health occupations education, home economics education, industrial arts education, manpower economics, occupational guidance, occupational rehabilitation, trade and industrial education.

SIZE OF DATA BASE: 17,500

DATE ESTABLISHED: 1967 (Ceased adding new information in December 1976)

PUBLICATIONS/ PRINT JOURNALS: *AIM/ARM* (1966-1976)
Resources in Vocational Education (1977-)

UPDATE FREQUENCY: Bimonthly

THESAURUS/SEARCH AIDS: Uses ERIC Thesaurus

TYPES OF SOURCE DOCUMENTS: Instructional materials developed by local school districts, state departments of education, curriculum development laboratories, and industrial organizations, research from USOE, Department of Labor, Office of Economic Opportunity, private foundations, etc.

FORMS OF RETRIEVABLE INFORMATION:

DOCUMENT COPIES AVAILABLE: Only documents listed in ERIC are available from EDRS

REMARKS: Beginning in 1977, with Volume 10, the AIM/ARM publication became *Resources in Vocational Education* (RIVE). This bimonthly publication reports on instructional and research materials currently in use and under development.

INFORMATION CONTACT: Kathleen Jezierski
The National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
(614) 486-3655

DATE VERIFIED: February 15, 1978

SYSTEMS/VENDORS: DIALOG (LOCKHEED)

CONDITIONS: Searches available through vendor.

ACRONYM: CEC

NAME OF DATA BASE: EXCEPTIONAL CHILD EDUCATION RESOURCES (*FORMERLY* EXCEPTIONAL CHILD EDUCATION ABSTRACTS)

MAJOR AREA(S): Handicapped/gifted education

SUBJECTS COVERED: Comprehensive database concerned with the education of handicapped and gifted children. Other aspects of handicapped/gifted education, e.g., child abuse, bilingual, culturally different, and adults (when applicable).

SIZE OF DATA BASE: 28,000

DATE ESTABLISHED: 1966

PUBLICATIONS/ PRINT JOURNALS: *Exceptional Child Education Resources*
Vol. 1-8: *Exceptional Child Education Abstracts*

UPDATE FREQUENCY: Online updated eight times a year, 450-500 citations each time (Print journal comes out four times a year).

THESAURUS/SEARCH AIDS: Uses ERIC Thesaurus

TYPES OF SOURCE DOCUMENTS: Books, monographs, literature guides, legislative documents, journal articles, manuals, newsletters, research/conference reports, professional non-print media, dissertations, including copyright materials.

FORMS OF RETRIEVABLE INFORMATION: Topical bibliographies with abstracts on selected areas.

DOCUMENT COPIES AVAILABLE: About 25% of the materials are also in ERIC's RIE. These can be purchased from the ERIC Documents Reproduction Service.

REMARKS: CEC is a valuable supplement to the ERIC database since only about one-half of the CEC citations are duplicated in ERIC and since CEC abstracts copyright materials.

INFORMATION CONTACT: Lynn Smarte
The Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Call toll free (800) 336-3728 continental U.S. only.
Virginia residents call collect: (703) 620-3660.

DATE VERIFIED: January 31, 1978

SYSTEMS/VENDORS: DIALOG (LOCKHEED), BRS

CONDITIONS:

ACRONYM:	ERIC
NAME OF DATA BASE:	EDUCATIONAL RESOURCES INFORMATION CENTER
MAJOR AREA(S):	Education

SUBJECTS COVERED: Education in its broadest sense, including: Career education, counseling and personnel services, urban, early childhood education, educational management, handicapped and gifted children, higher education, information resources, junior colleges, languages and linguistics, reading and communication skills, rural education, science/mathematics/environment, social sciences, teacher education, tests/measurement/evaluation.

SIZE OF DATA BASE: 295,000 (140,000 in RIE, 155,000 in CIJ

DATE ESTABLISHED: 1966

PUBLICATIONS/ PRINT JOURNALS: *Current Index to Journals in Education* (CIJE), which indexes more than 700 publications. *Resources in Education* (RIE), formerly *Research in Education*, which identifies most significant research reports, projects, etc.

UPDATE FREQUENCY: Monthly

THESAURUS/SEARCH AIDS: Printed *Thesaurus of ERIC Descriptors* is available in libraries and resource centers. The *Thesaurus* is available in more expanded form online.

TYPES OF SOURCE DOCUMENTS: Research reports, evaluation studies, curriculum guides, bibliographies, course descriptions, journal articles, pamphlets, and other "fugitive" materials.

FORMS OF RETRIEVABLE INFORMATION: Microfiche copies of documents, except for journal articles, are available in over 550 locations throughout the United States. Most are open to the general public.

DOCUMENT COPIES AVAILABLE: Most of the materials, except for journal articles, can be purchased in paper copy or microfiche from the ERIC Documents Reproduction Service.

REMARKS: ERIC is funded by the National Institute of Education. There are 16 clearinghouses, which collect and abstract the materials located throughout the United States. A list of current clearinghouses can be found on the inside front cover of CIJE and the inside back cover of RIE and on the next three pages.

INFORMATION CONTACT: ERIC Clearinghouse or
Charles Hoover
National Institute of Education
Office of Dissemination and Resources
Washington, D.C. 20208
(202) 254-5555

DATE VERIFIED: January 30, 1978

SYSTEMS/VENDORS: DIALOG (LOCKHEED), BRS, ORBIT (SDC)

CONDITIONS: Services are provided on a subscription basis for computer searches. Manual searches are available in many libraries of higher education institutions, state education departments, etc.

ACRONYM:	IRIS - IRAS
NAME OF DATA BASE:	THE INTERAGENCY RESEARCH INFORMATION SYSTEM/THE INFORMATION RETRIEVAL AND ANALYSIS SYSTEM
MAJOR AREA(S):	Research on early childhood and adolescence

SUBJECTS COVERED: Information on the full gamut of current research projects on children and youth which have been funded by member Federal agencies. Includes substantial data and research findings pertaining to target groups and demographically defined populations, and RDO & E programs with a major emphasis on children or adolescents.

SIZE OF DATA BASE: FY 1977: approximately 4800; FY 1976: approximately 4400

DATE ESTABLISHED: 1974

PUBLICATIONS/ PRINT JOURNALS: *Classification of Federally Funded Research in Early Childhood and Adolescence—FY 1976;* Accompanying *User's Manual* describes codes in the system; Publication lists; Annual reports.

UPDATE FREQUENCY: Yearly

THESAURUS/SEARCH AIDS: *Classification* publication and manual cited above

TYPES OF SOURCE DOCUMENTS: Annual reports and end products of data collection from research funded by member agencies.

FORMS OF RETRIEVABLE INFORMATION: Print-outs of computer retrieved abstracts of the research proposals

DOCUMENT COPIES AVAILABLE: Xeroxed copies of research abstracts and findings available for FY 1974; computer-produced data for FY 1975, FY 1976, and FY 1977.

REMARKS: Information is computerized but not directly accessible to user. User may call or write. Requests are translated to code for computer searching. FY 1974 data will be available by the middle of May, 1978.

INFORMATION CONTACT:	Sharon Mangus IRIS/IRAS Social Research Group The George Washington University 2401 Virginia Avenue, NW Washington, D.C. 20037 (202) 331-8708
DATE VERIFIED:	January 23, 1978
SYSTEMS/VENDORS:	None
CONDITIONS:	Requests are filled on a cost-reimbursement basis for non-federal personnel.

ACRONYM:	NCES
NAME OF DATA BASE:	NATIONAL CENTER FOR EDUCATION STATISTICS
MAJOR AREA(S):	Educational statistics

SUBJECTS COVERED: Statistics from surveys of individuals, groups and finances in all levels of education: elementary, secondary, adult, vocational, college and university. Statistics about libraries and educational television.

SIZE OF DATA BASE: Not available

DATE ESTABLISHED: Database—1870; NCES—1965

PUBLICATIONS/ PRINT JOURNALS: *NCES Program and Plans*

UPDATE FREQUENCY: Annually

THESAURUS/SEARCH AIDS: In-house publications list

TYPES OF SOURCE DOCUMENTS: Statistics of surveys done by NCES, other government agencies (e.g., Census Bureau), non-government agencies (e.g., National Education Association).

FORMS OF RETRIEVABLE INFORMATION: Either direct telephone replies or computer readable tapes. Limited xerox copies of documents and limited computer printouts available. Special tabulations and printouts available at cost of computer.

DOCUMENT COPIES AVAILABLE: Single xerox copies of documents-or information available.

REMARKS: Offline searches, telephoned or written, are free of charge to anyone. Computer tapes and online searches are available to other government agencies at reduced cost. NCES is an agency of the Department of Health, Education and Welfare.

INFORMATION CONTACT: W. Vance Grant, Specialist in Education Statistics
NCES
400 Maryland Avenue, S.W.
Washington, D.C. 20202
(202) 245-8511
Computer or online information: (202) 245-8760, Robert Yuill

DATE VERIFIED: February 15, 1978

SYSTEMS/VENDORS: Computer Sciences Corporation (CSC)

CONDITIONS: Account with CSC, unless government agency.

ACRONYM:	NICEM
NAME OF DATA BASE:	NATIONAL INFORMATION CENTER FOR EDUCATIONAL MEDIA
MAJOR AREA(S):	Non-print education materials

SUBJECTS COVERED: Covers the entire spectrum of materials in education: pre-school to professional and graduate school. Includes all education non-print media: 16 mm films, 35 mm film-strips, transparencies, audio and video tapes, records, slides, etc.

SIZE OF DATA BASE: 600,000+

DATE ESTABLISHED: 1966

PUBLICATIONS/ PRINT JOURNALS: Nine single media indexes and five multimedia indexes.

UPDATE FREQUENCY: Bi-monthly updates provided free to subscribers.

THESAURUS/SEARCH AIDS: None

TYPES OF SOURCE DOCUMENTS: Materials listed by Library of Congress, announced by publishers/producers, and included in regional catalogs produced by NICEM.

FORMS OF RETRIEVABLE INFORMATION: Computer printout of bibliographic record includes subject area, type of media, audience level, length of media, description of contents, producer, etc.

DOCUMENT COPIES AVAILABLE: None

REMARKS: NICEM also produces custom catalogs of holdings of education media.

INFORMATION CONTACT:
Art Schaak, Information Officer
NICEM
University of Southern California
University Park
Los Angeles, California 90007
(213) 741-6681

DATE VERIFIED: January 20, 1978

SYSTEMS/VENDORS: DIALOG (LOCKHEED)

CONDITIONS: Through vendor or direct mail service.

ACRONYM:	NICSEM/NIMIS I
NAME OF DATA BASE:	NATIONAL INFORMATION CENTER FOR SPECIAL EDUCATION MATERIALS/NATIONAL INSTRUCTIONAL MATERIALS INFORMATION SYSTEM I
MAJOR AREA(S):	Child use materials for special education

SUBJECTS COVERED: Print and non-print materials such as books, guides and manuals, kits, films, video and audio cassettes, filmstrips, games, toys, transparencies, etc. Intended for use in schools and institutions for preschool children to young adults with handicaps in learning, including: visual, hearing, speech and language impairments, mental retardation, behavior disorders, learning and physical disabilities.

SIZE OF DATA BASE: 37,000+

DATE ESTABLISHED: 1974

PUBLICATIONS/ PRINT JOURNALS: Master catalog and indexes cross-referenced by handicapping condition available in bookform and microfiche

UPDATE FREQUENCY: Unscheduled basis

THESAURUS/SEARCH AIDS: None at this time

TYPES OF SOURCE DOCUMENTS: Publishers and producers

FORMS OF RETRIEVABLE INFORMATION: Computer printout with explanation of type of material, bibliographic data, price, etc.

DOCUMENT COPIES AVAILABLE: Materials can be ordered from publishers, producers or state/local learning resource centers.

REMARKS: Contact NICSEM or local State Education Agencies for further information.

INFORMATION CONTACT:
Information Specialist
NICSEM
University of Southern California
University Park
Los Angeles, CA 90007
(800) 421-8711; California residents call (213) 741-5899

DATE VERIFIED: February 3, 1978

SYSTEMS/VENDORS: BRS; DIALOG (LOCKHEED)

CONDITIONS: Online searching services provided through NICSEM

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ACRONYM:	PA (PASAR, PATELL)
NAME OF DATA BASE:	PSYCHOLOGICAL ABSTRACTS
MAJOR AREA(S):	Psychology and related fields

➡ **SUBJECTS COVERED:**	World's literature in psychology and related fields in the behavioral sciences; experimental psychology (human); animal psychology; neurology and physiology; communication systems and language; developmental psychology; psychometrics; applied psychology; education; professions in psychology; social processes and social issues; experimental social psychology; treatment and prevention; and physical and psychological disorders.
SIZE OF DATA BASE:	240,000+
DATE ESTABLISHED:	1967
PUBLICATIONS/ PRINT JOURNALS:	*Psychological Abstracts*
➡ **UPDATE FREQUENCY:**	Monthly, also cumulative indexes published every six months and three years.
➡ **THESAURUS/SEARCH AIDS:**	*Thesaurus of Psychological Index Terms*
➡ **TYPES OF SOURCE DOCUMENTS:**	Over 2,400 domestic and foreign periodicals, journals, reports, monographs, and books.
FORMS OF RETRIEVABLE INFORMATION:	Computer printouts; brief and full citations
➡ **DOCUMENT COPIES AVAILABLE:**	None
➡ **REMARKS:**	Psychological Abstracts Information Service User's Reference Manual is available for $15.00; includes a two year update.

INFORMATION CONTACT:	Myra Daniels, Assistant Editor for Indexing American Psychological Association 1200 Seventeenth Street, N.W. Washington, D.C. 20036 (202) 833-7697
DATE VERIFIED:	February 1, 1978
SYSTEMS/VENDORS:	DIALOG (LOCKHEED), BRS, and soon to be added: ORBIT (SDC)
CONDITIONS:	Through vendors or direct mail service. Will bill organizations.

ACRONYM:	SA
NAME OF DATA BASE:	SOCIOLOGICAL ABSTRACTS
MAJOR AREA(S):	Sociology and related disciplines

SUBJECTS COVERED:	World's literature in sociology and related disciplines, including among other fields: methodology, research technology, history and theory, social psychology, culture and social structure, management and complex organizations, social change, economic development, mass phenomena, political interactions, stratification, rural and urban sociology, feminist studies, poverty studies, sociology of the family, arts, knowledge, religion, science, etc.
SIZE OF DATA BASE:	83,000
DATE ESTABLISHED:	1953 (online from 1963)
PUBLICATIONS/ PRINT JOURNALS:	*Sociological Abstracts*
UPDATE FREQUENCY:	Five times a year, approximately 1200-1400 records added each time; a sixth issue is the cumulative index.
THESAURUS/SEARCH AIDS:	Descriptors, listed in User's Manual, along with information on selection and coverage (including list of journals covered), editorial and indexing policy, sample search, etc.
TYPES OF SOURCE DOCUMENTS:	Approximately 130 core journals abstracted in total; 1200 journals screened. Abstracts of papers presented at sociology meetings. Some books abstracted before 1972.
FORMS OF RETRIEVABLE INFORMATION:	Computer printouts of citations (1963-1972), citations and abstracts (1973-present) from vendor. Direct service can provide abstracts, upon request, prior to 1973.
DOCUMENT COPIES AVAILABLE:	Photocopies of some articles available. These are indicated in the source publications section of the annual index.
REMARKS:	Searches are available from Sociological Abstracts. A search profile is completed and used to provide estimated costs.

INFORMATION CONTACT:	User Services: Diane Wurzel General Information: Leo Chall Sociological Abstracts, Inc. P.O. Box 22206 San Diego, California 92122 (714) 565-6603
DATE VERIFIED:	January 27, 1978
SYSTEMS/VENDORS:	DIALOG (LOCKHEED); BRS
CONDITIONS:	Through vendor or direct mail service.

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ACRONYM:	SSCI
NAME OF DATA BASE:	SOCIAL SCISEARCH
MAJOR AREA(S):	Social and behavioral sciences

SUBJECTS COVERED: Covers every area of the social and behavioral sciences: anthropology, archaeology, area studies, business, finance, communications, health, criminology, demography, economics, education, ethnic groups, geography, history, information, international relations, law, linguistics, management, marketing, philosophy, political science, psychology, psychiatry, sociology, statistics, and urban development.

SIZE OF DATA BASE: Over 500,000

DATE ESTABLISHED: 1972

PUBLICATIONS/ PRINT JOURNALS: *Social Sciences Citation Index (SSCI)*

UPDATE FREQUENCY: Monthly

THESAURUS/SEARCH AIDS: *Permuterm Subject Index* (thesaurus)

TYPE OF SOURCE DOCUMENTS: Over 1,500 journals.

FORMS OF RETRIEVABLE INFORMATION: Computer printout; brief or full citations, complete bibliographies available.

DOCUMENT COPIES AVAILABLE: Original articles or photocopies @ $3.50 for up to 10 pages, in U.S.A., Canada and Mexico; $4.50 all other locations; $2.00 per additional 10-page units or fractions, in all locations.

REMARKS: • Search manual available free from ISI.

INFORMATION CONTACT: James Hofstaedter, Supervisor of Customer Services
325 Chestnut Street
Philadelphia, Pennsylvania 19106
Toll Free: (800) 523-1850

DATE VERIFIED: February 8, 1978

SYSTEMS/VENDORS: DIALOG (LOCKHEED); BRS

CONDITIONS: Through vendor.

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APPENDIX B: COMMERCIAL PUBLISHERS

Characteristics:

Cost: variable, very few free resources

Kind of products: books, films, kits, tapes, filmstrips

Mailing list: your name added on request

Availability: all products available by mail, some in stores

How current: continual production of new resources

Distinctive features: often written or compiled by recognized

authorities in a particular field

Commercial Publishers

The following companies publish subscription services or series of monographs, pamphlets or books which deal with career information.

Bellman Publishing Co., Box 172, Cambridge, Mass. 02138

B'Nai B'rith Vocational Service, 1640 Rhode Island Ave., N.W., Washington, D.C. 20036

Careers, Largo, Fla. 33540

Chronicle Guidance Publications, Moravia, N.Y. 13118

Finney Company, 3350 Gorham Ave., Minneapolis, Minn. 55426

The Guidance Centre, 371 Bloor St. W., Toronto, Ontario, Canada

Institute for Research, 537 S. Dearborn St., Chicago, Ill., 60605

Julian Messner, 1 West 39th St., New York, N.Y. 10018

Personnel Services, Inc., Box 306, Jaffrey. N.H.

Research Publishing Co., Box 1474, Madison, Wis. 53701

Science Research Associates, Inc., 259 E. Erie, Chicago, Ill. 60611

Vocational Guidance Manuals, 235 East 45th St., New York, N.Y. 10017

Western Personnel Institute, 10th and Dartmouth, Claremont, Calif.

World Trade Academy Press, 50 E. 42nd St., New York, N.Y. 10017

Sound Filmstrips

The following list contains publishers from whom catalogues of sound filmstrips can be requested:

Acoustifone Corp., 8954 Comanche Avenue, Chatsworth, Calif. 91311

Aims Instructional Media Services, Inc., P.O. Box 1010, Hollywood, Calif. 90028

Coronet Instructional Materials, 65 E. South Water Street, Chicago, Ill. 60601

Doubleday Multimedia, Box 11607/1371 Reynolds Avenue, Santa Ana, Calif. 92705

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Educational Dimensions Corp., Great Neck, N.Y.

Educational Productions, 8328 Willow Way, Raytown, Missouri 64138

Encyclopedia Britannica Educational Corporation, 425 North
Michigan Avenue, Chicago, Ill. 60611

Eye Gate House, Inc., Jamaica, N.Y. 11435

Guidance Associates, 41 Washington Avenue, Pleasantville, N.Y. 10570

McGraw-Hill Films, 1221 Avenue of the Americas, New York, N.Y. 10020

Pathescope Educational Films, Inc., 71 Weyman Avenue, New Rochelle,
N.Y. 10802

Scholastic Book Services, 904 Sylvan Avenue, Englewood Cliffs,
N.J. 07632

Society for Visual Education, Inc. (SVE), 1345 Diversey Parkway,
Chicago, Ill. 60614

Westinghouse Learning Corporation, 100 Park Avenue, New York,
N.Y. 10017

Films

The list below includes guides that can be purchased as well as

publishers that will provide free catalogs.

Aims Instructional Media Services, Inc., P.O. Box 1010, Hollywood,
Calif. 90028

American Educational Films, 331 North Maple Drive, Beverly Hills,
Calif. 90210

APGA Films, 1607 New Hampshire Avenue, N.W., Washington, D.C. 20009
(Project WERC - 12 films)

APGA Publications Sales, 1607 New Hampshire Avenue, N.W.,
Washington, D.C. 20009
NVGA bibliography of current career information, 1973
Edition

BFA Educational Media, 2211 Michigan Ave., Santa Monica,
Calif. 90404

Bureau of Health Manpower Education, Office of Information,
National Institutes of Health, Bethesda, Maryland 20014
(Health careers film guide)

Coronet Instructional Materials, 65 E. South Water Street, Chicago, Ill.   60601

Counselor Films, Inc., 1728 Cherry St., Philadelphia, Penn.   19103

Data Films, 2625 Temple Street, Los Angeles, Calif.   90025

Doubleday Multimedia, 1371 Reynolds Ave., Santa Ana, Calif   92705

Films Incorporated, 1144 Wilmette Avenue, Wilmette, Ill.   60091

Houghton-Mifflin, Pennington-Hopewell Road, Hopewell, N.J.   08525

McGraw-Hill Films, 330 West 42nd Street, New York, N.Y.   10036

Modern Talking Pictures Service, 2323 New Hyde Park Road, New Hyde Park, N.Y.   11040

Olympic Film Service, 161 West 22nd Street, New York, N.Y.   10011

Oxford Films, Inc., 1136 N. Las Palmas Ave., Los Angeles, Calif.   90038

Sandler Institutional Films, Inc., 1001 N. Poinsettia Place, Hollywood, Calif.   90046

Visual Aids Service, University of Illinois, Division of University Extension, Champaign, Ill.   61820
Catalog of educational films, 1969

Vocational Films, 111 Euclid Avenue, Park Ridge, Ill.   60068

Cassette Tapes

Career Education Association, New York, N.Y.

Demco Educational Corp., Box 1488, Madison, Wis.   53701

Educational Corporation of America, Troy, Mich.

ESP Inc., Jonesboro, Arizona

Macmillan Library Services, 2408 Brown Street, Riverside, N.J.   08075

Voices for Careers, New Jersey Occupational Resource Center, Bldg. 871, R.M.C., Plainfield Avenue, Edison, N.J.   08817

Kits.

Occupational Exploration Kit. Science Research Associates, Ind.,
259 East Erie Street, Chicago, Ill. 60611. 1972.

> This kit contains 400 occupational briefs. It also has
> an exploration program that allows students to answer
> questions about their educational plans, word ability,
> math ability, and interests. Using overlay cards,
> numbers appear that match the answers and refer to some
> of the 400 briefs in the kit.

Occupational Microfile. Chronicle Guidance Publications, Inc.,
Moravia, N.Y. 13118. Updating Service.

> A microfilm edition of the Chronicle Guidance Briefs.
> The information appears on micorfiche which are filed
> in a small metal box. When used with a microfiche
> reader-printer, students are able to produce their
> own career briefs.

Occupational Viewdeck. Chronicle Guidance Publications, Inc.,
Moravia, N.Y. 13118. 1972.

> An exploration kit that solicits responses in the fol-
> lowing areas: interest, temperament, educational plans,
> physical demand, etc. Using overlay cards for their an-
> swers, students receive names of suggested occupations
> to explore.

Careers, Inc., P.O. Box 135, Largo, Fla. 33540.

> The following kits can be purchased separately or as a package.
> The prices include one year's subscription to the updating service.
> After the first year, there is a fee for updating.

> Semi-Skilled Careers Kit. 150 career briefs and job guides.

> Industrial Careers Kit. 150 career briefs and summaries.

> Business Careers Kit. 120 career briefs and summaries.

> Science and Engineering Careers Kit. 120 career briefs and
> summaries.

> Health Careers Kit. 120 career briefs and summaries.

> Professional Careers Kit. 550 career briefs and summaries.

View-Vital Information for Education and Work. Central Jersey
Industry Education Council, 71 Main Street, Woodbridge, N.J. 07095

A set of aperture cards that describe 99 occupations
that exist in central New Jersey. Some of the infor-
mation would apply only to the job as it exists in this
geographic region (Somerset and Middlesex Counties).
Since the information is on microfiche, users must
have access to a microfiche reader. The set is
expanded every year.

APPENDIX C: STANDARD REFERENCES

Characteristics:

Cost: free at a library or media center; purchase usually fairly

   expensive

Kind of products: books, periodicals, newsletters, indexes

Mailing list: none

Availability: available by mail or sometimes in bookstores

How current: updated regularly at varying intervals

Distinctive features: responsive to the needs of the greatest

   number of people; a good investment for starting a resource

   room with a limited budget

Reference Books (with ordering information)

American junior colleges. (American Council on Education, 1785 Massachusetts Avenue, Washington, D.C. 20036.)

American trade schools directory. (Croner Publications, 211-03 Jamaica Ave., Queens Village, N.Y. 11428.)

American universities and colleges. (American Council on Education, 1785 Massachusetts Avenue, Washington, D.C. 20036.)

Barron's guide to the two-year college, vol. 1, and Occupational Program selector, vol. 2. (Barron's Educational Series, Inc., 113 Crossways Park Drive, Woodbury, N.Y. 11797.)

Career index. (Chronicle Guidance Publications, Inc., Moravia, N.Y. 13118.)

Career opportunities for technicians and specialists. (J. G. Ferguson Publishing Company, 6 N. Michigan Ave., Chicago, Ill. 60602.)

The college blue book. (Christian E. Burckel, Box 311, Yonkers, N.Y. 10707. Four volumes.)

Comparative guide to American colleges; Comparative guide to two-year colleges and four-year specialized schools and programs; Comparative guide to engineering programs; and Comparative guide to junior and two-year community colleges. (Harper & Row, 49 East 33rd Street, New York, N.Y. 10016.)

Concise handbook of occupations. J. G. Ferguson Publishing Company, 6 N. Michigan Ave., Chicago, Ill. 60602.)

Dictionary of occupational titles, vol. 1; Occupational classification and industry index, vol. 2; Selected characteristics of occupations, supp. 1; Traits and physical strengths, supp. 2; and Training manual. (Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.)

Educators guide to free guidance materials. (Educators Progress Service, Randolph, Wis. 53956.)

Encyclopedia of careers and vocational guidance. (J. G. Ferguson, 6 N. Michigan Ave., Chicago, Ill. 60602.)

Job guide for young workers. (U.S. Government Printing Office, Washington, D.C. 20402.)

Lovejoy's career and vocational school guide. (Simon and Schuster, Inc., 630 Fifth Avenue, New York, N.Y. 10020.)

Lovejoy's college guide. (Simon and Schuster, 630 Fifth Avenue, New York, N.Y. 10020.)

National directory of schools and vocations. (State School
Publications, North Springfield, Pa. 16430.)

NVGA bibliography of current career information. (Publications
Sales, American Personnel and Guidance Association, 1607 New
Hampshire Avenue, N.W., Washington, D.C. 20009.)

Occupational literature: A annotated bibliography. (H. W. Wilson
Co., 950 University Avenue, Bronx, New York 10452.)

Occupational outlook handbook. (U.S. Government Printing Office,
Washington, D.C. 20402.)

On the job. (J. G. Ferguson Publishing Company, 6 N. Michigan Ave.,
Chicago, Ill. 60602.)

Profiles of American colleges. (Barron's Educational Series, Inc.,
113 Crossways Park Drive, Woodbury, N.Y. 11797.)

Periodicals and Indexes (with ordering information)

Career education news. (McGraw-Hill Institutional Publications,
230 West Monroe Street, Chicago, Ill. 60606.)

Career world. (Curriculum Innovations, Inc., 501 Lake Forest Avenue,
Highwood, Ill. 60040.)

Career guidance index. (Careers, Largo, Fla. 33540.)

Chronicle 3 in 1 service. (Chronicle Guidance Publications, Inc.,
Moravia, N.Y. 13118.)

Counselor's information service. (B'nai B'rith Career and Counseling
Services, 1640 Rhode Island Avenue, N.W., Washington, D.C. 20036.)

Guidance exchange. (P.O. Box 1464, Grand Central Post Office,
New York, N.Y. 10017.)

Inform. (National Career Information Center, APGA, 1607 New
Hampshire Avenue, Washington, D.C. 20009.)

Occupational outlook report series. (U.S. Department of Labor,
U.S. Government Printing Office, Washington, D.C. 20402.)

Occupational outlook quarterly. (Bureau of Labor Statistics,
Washington, D.C. 20212.)

The personnel and guidance journal. (American Personnel and Guidance
Association, 1607 New Hampshire Avenue, N.W., Washington, D.C. 20009.)

SRA guidance service subscription plan. (Science Research Associates,
259 E. Erie St., Chicago, Ill. 60611.)

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The vocational guidance quarterly. (National Vocational Guidance Association, a division of American Personnel and Guidance Association, 1607 New Hampshire Avenue, N.W., Washington, D.C. 20009.)

APPENDIX D: LOCAL, STATE, NATIONAL AGENCIES

<u>Characteristics</u>:

<u>Cost</u>: free or minimal cost for most materials

<u>Kind of products</u>: often models and program descriptions

<u>Mailing list</u>: yes

<u>Availability</u>: information available from local, state, or national agency representatives

<u>How current</u>: interim and final reports, as well as examples of exemplary and/or demonstration projects, made available as they are carried out

<u>Distinctive features</u>: often provide resources related to particular geographic areas (state or region); may focus on special local concerns (such as rural youth or urban problems)

CAREER INFORMATION

<u>Federal Agencies</u>. Almost all federal agencies publish information concerning occupations. Information about government publications of all kinds may be obtained by ordering the monthly catalog from the Supt. of Documents, U.S. Government Printing Office, Washington, D.C. This catalog lists all the materials published during the previous month. An alternate method of obtaining most information pertinent to counselors is to ask to be placed on the mailing list of the agencies which publish the bulk of federal occupational literature. These agencies include the National Institute of Education, as well as the Departments of:

- Agriculture
- Defense
- Health, Education and Welfare
- Interior
- Labor (source of the Dictionary of Occupation Titles and the Occupational Outlook Handbook)
- State
- Treasury
- Civil Service Commission
- National Science Foundation
- National Aeronautics and Space Administration
- Office of Economic Opportunity

<u>State Agencies</u>. The sources at the state level which would probably provide the greatest amount of information would be the Department of Public Instruction and the State Employment Service.

<u>Local Agencies</u>. Check local school district administration offices, regional program directors, county school districts, or vocational-technical education centers for useful information.

GLOSSARY

Data base - a system, often computerized, for information retrieval.

Descriptors - the name used to describe index terms in the ERIC
Thesaurus.

Dissemination system - includes diffusion networks, research coordi-
nating units, and research and development exchanges. Makes
information available to residents of a designated area.

ED number - a six-digit number with the prefix "ED," meaning ERIC
Document, which is assigned to each resource in the ERIC system.

ERIC - the acronym for Educational Resources Information Center. A
network of 16 clearinghouses which collect, store, and disseminate
educational information.

Resource - a source of information, human or nonhuman.

Resource attitudes - feelings which promote or inhibit your ability to
acquire and use resources effectively.

Resource resourcefulness - willingness and ability to find and utilize
appropriate resources to meet particular needs.

RIM - the acronym for Resource Implementation Model. A systematic way to
select and implement resources.

FACILITATOR'S GUIDE

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NOTES FOR THE FACILITATOR

Your role is crucial to the success of the workshop. You are responsible for setting the tone at the very beginning, keeping things moving at an appropriate pace, sensing when participants are ready for a break, adapting materials or times to participants' needs, providing transition between activities, leading discussions, and answering questions that may arise about content or processes. The key to a successful workshop is preparation. You need to be totally familiar with the content, the materials, and the flow of the activities in the program. Your confidence and serenity will communicate to the participants and give them a sense of security--a feeling that you know what you're doing and they're in good hands.

The following are a few suggestions that may be of help to you as you plan for this workshop.

Before the Workshop:

1. Study the program thoroughly ahead of time. Be familiar with the participant materials and this Facilitator's Guide. You will need to give special attention to the demonstration role play in Section C. (This will mean choosing a partner and rehearsing the role play ahead of time.) It is strongly recommended that you participate in the program before you lead it with a group.

2. Well in advance of the workshop, notify participants that each one should bring with him/her one resource related to career development (see Sample Letter to Participants on p. 90). To supplement these, assemble as many resources of your own as you can. If audiovisual materials must be viewed/heard, schedule their use in Part III, Step 2 (p. 41)

before the workshop begins.

3. Make sure all needed materials are present for the workshop. This may include audiovisual equipment needed to display resources brought by participants. Having extra paper and pencils handy is a good idea. You may want to use a blackboard or newsprint to record group activities to share with the total group.

4. You will need to xerox multiple copies of the following pages:

Title	Page No.	No, of Copies per Participant
Resource Attitudes Inventory (Pre and Post)	12	2
Current Resource Inventory	14	1
Resource Comprehension Check	18	1
Data Base Comprehension Check	34	1
Interviewer Rating Sheet	39	1
Discussion Questions Following Role Plays (Optional)	40	1
Resource Evaluation Form	44	6
Resource Action Plan Guide	49	2
Customizing the Rim	50	1

You will collect the evaluation forms after each activity in the program.

5. Make sure that room arrangements are appropriate. The ideal place to present the workshop is in a media center or Learning Resources Center, where many resources are already available. Seating should be somewhat flexible, so participants can move easily from large-group to small-group activities.

6. Try to obtain at least one set of ERIC tools (Thesaurus and RIE). They will be useful in Section B (Using a Representative Data Base).

7. Choose a co-facilitator. While it is possible for you to conduct the workshop alone, you will find it much easier if you enlist someone's help. Preferably, this should be a person who has participated in the program before.

At the Workshop:

1. Introduce yourself to participants, and them to each other.. Briefly explain your background and the role you will play in the program.

2. Establish time limits (lunch, when the day ends) and the schedule for the day, and do your best to stick to them.

3. Follow the instructions in this Guide for each activity. Have participants put their names on each evaluation form. Collect all evaluation forms for later analysis of the participants' success.

Sample Letter to Participants

Dear Participant,

I'm glad that you will be participating in the workshop on
Becoming Resource Resourceful, on _____(date and time)_____
at _____(place)_____ .

The workshop activities are designed to familiarize you with a
wide array of resources related to Career Development. To this end, we
are requesting each of you to bring at least one such resource to the
workshop. You might decide to choose a book, journal, curriculum guide,
reference packet, poster, kit, film, tape, or anything else you have
found interesting and worthy.

If you choose to bring any materials requiring audiovisual equip-
ment, please contact me at _____(address and phone)_____ before
_____(date)_____ so that we can make necessary arrangements to share
them with other participants. It will also be very important for you
to bring descriptive and purchasing information about your resource with
you. With everyone bringing a different resource, we expect that all of
you will leave the workshop with new ideas and materials that you can
immediately put to use in your own work setting. We look forward very
much to meeting you and working with you.

Sincerely,

(Workshop Coordinator)

INTRODUCTION AND RESOURCE ATTITUDES PREASSESSMENT

GOAL: To make participants aware of how attitudes influence resource use, and to help them become aware of their own and others' resource attitudes.

TEXT: Have participants read text up to Resource Attitudes
(10 min.) Inventory (pp. 1-11).

ACTIVITY: Give instructions for filling out Resource Attitudes Inventory
(10 min,) (p. 12). Say, "For each item, circle an appropriate point on the scale, from 1 (strongly disagree) to 5 (strongly agree). Try to evaluate yourself as you are now. After finishing the program, you will have the opportunity to take the inventory again and compare your scores." Have participants complete the inventory.

Allow a minute for participants to look over their own inventories. Then say, "Don't worry if you scored yourself low in some areas. This program is based on the idea that as you acquire more-knowledge and skills in using resources, your attitudes toward them will become increasingly positive." Collect the Inventories to record scores. Then go on to the next activity.

CURRENT RESOURCE INVENTORY

GOAL: To help participants identify resources which are already present in their own settings.

TEXT: Have participants read text on the Current Resource Inventory, p. 13.
(2 min.)

ACTIVITY: Give instructions for filling out the Current Resource Inventory, p. 14. Say, "Think of your current resources in terms of the people, the materials, and the equipment in your setting. Also think of community persons and places to which you have access. Now write down the names of each of these resources in the appropriate column and also include their location and possible restrictions for use (such as cost, advance scheduling required, repairs needed, etc.)." Have persons complete the Inventory.
(13 min.)

Say, "In the next exercise, you will have a chance to share your Inventories with each other and discuss one of your resource experiences."

ACTIVITY: Divide participants into small groups of six to eight. Have each person give his/her name and setting and review each other's Inventories for no more than 8 to 10 minutes. Then ask each participant to share briefly within the group a successful experience that s/he has had in the past involving resource use.
(25 min.)

If there is time, each small group may select its most interesting experience to tell to the whole group. Or you may ask a few volunteers to do this.

Allow participants to keep their own Current Resource Inventories so that they may be used later in the section on Customizing the Rim.

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THE RESOURCE IMPLEMENTATION MODEL (RIM)

Step 1: Becoming Familiar With an Array of Resources

A. Increasing Knowledge of Nonhuman Resources

GOAL: To introduce participants to the concept that resources can be systematically acquired, evaluated, and implemented, and to make them familiar with some nonhuman resources.
(Objective 1)

TEXT:
(10 min.)
Have participants read text on The RIM (page 15) and Becoming Familiar With an Array of Resources (pp. 16 and 17).

ACTIVITY:
(35 min.)
Divide participants into groups of eight, and each eight into four dyads. Assign each dyad one of the four sections of information (Appendices A-D). Ask them to read it and become familiar with the contents. Have each dyad in turn report on its area to the group of eight. Encourage them to add new information or share their own experience concerning their assigned resources as they report. Reporting takes place in the groups of eight, not in the large group. When all dyads have reported, have participants turn to the Resource Comprehension Check (page 18). Ask them to read the text, and then complete the form individually. Have them exchange papers and check each other's answers. Characteristics need not be ones presented earlier, though in most cases they probably will be. Each lettered space should be accurately completed to fulfill Objective 1 successfully. Collect the activity sheets from participants.

BREAK:
(15 min.)
Relax!

B. Using a Representative Data Base

GOAL:
To teach participants to conduct a manual search of a representative data base, the ERIC system. (Objective 2)

TEXT:
(5 min.)
Have participants read pages 20 and 21, the first four paragraphs in this section, to themselves.

ACTIVITY:
(55 min.)
Read aloud the text beginning on page 22. Have participants follow along. Work through this material as an oral demonstration, allowing time for participant interaction and questions. This means that YOU must know how to design a manual search strategy of the ERIC system. Try to avoid lecturing; maintain a discussive, conversational tone. After you have worked through the example, ask participants to read the Summary on page 33. Allow time for questions and discussion.

COMPREHENSION CHECK: Have participants fill out the Data Base Compre-
(10 min.)
hension Check on page 34.   The answer page follows next in this Facilitator's Guide. Have participants exchange papers and evaluate each other's responses. Collect the activity sheets from participants.

LUNCH BREAK
(1 hour)

Name _____

Data Base Comprehension Check

1. The first thing to do when using a data base is ___*state your*___

___*search question*___

2. Computer searching and manual searching are similar in the
following way: ___*they use the same search principles*___

3. Indexing terms used in the ERIC system, called descriptors, are
found in the ___*Thesaurus*___ .

4. You should use a minimum of __*2*__ descriptors in searching the
ERIC system.

5. Resources in Education (RIE) is published __*12*__ time(s) a year.

6. A resume for each ERIC document is found in ___*RIE*___ .

7. To make them easy to locate, ERIC documents are filed by _____

___*ED number*___ .

8. A small piece of microfilm containing photographed printed pages
is called a ___*microfiche*___ .

9. ERIC documents can be obtained in two forms: ___*microfiche*___
and ___*hard copy (printed on paper)*___ .

Number correct; _____/9 .

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C. Using Human Resources

GOAL: To make participants aware of the many human resources available to them, and teach them to make the best use of those resources. (Objective 3)

TEXT: Have participants read text on Using Human Resources (pp. 35-38).
(30 min.) You and your co-facilitator (or a workshop participant) do a sample role play interview, incorporating both good and bad elements. Lead a brief discussion helping the group to analyze the interaction, focusing especially on the suggested guidelines.

Divide participants into dyads. One member of the dyad will interview the other in a role play. The interviewer should think of a situation back home which could be facili-tated through use of a human resource. He/she briefly explains this to the interviewee. The interviewee should select one of the five categories of human resources (outside experts, col-leagues, students, community members, professional association members). He/she will role play the person selected.

After the first role play interview, the interviewee should evaluate his/her partner's performance using the Inter-viewer Rating Sheet. (Interviewer Rating Sheets should not be exchanged until after both interviews are completed.) Then have participants reverse the roles and repeat the process. Each member grades his/her own rating sheet by totalling the number of checks in each column. Have the dyads exchange Interviewer Rating Sheets and briefly discuss them. Collect

the rating sheets. (Optional: Have the dyads form groups
to discuss their experience using the discussion questions
on page 40.)

Step 2. Evaluating and Choosing Resources

GOAL: To teach participants to evaluate and select resources systematically. (Objective 4)

TEXT: Have participants read text for this Step (pages 41-43).
(15 min.)
Discuss briefly the material participants brought with them, as well as other resources you have gathered. Emphasize the importance of the 15 criteria, suggesting that some of the criteria they may never have thought of.

ACTIVITY: Divide participants into groups of three. All participants
(30 min.)
should have with them the resource(s) they brought to the workshop. Each person briefly shares his/her resource. If audiovisual materials are used, you must schedule them within the time limits of the program. This may mean showing/hearing short excerpts or having the material briefly summarized. Then ask participants to work in threes to evaluate each of the three resources brought by triad members, using the Resource Evaluation Forms. Be sure that participants evaluate the resources in terms of the Midville vignette. Each triad will need three forms, one for each resource to be evaluated.

After the evaluation, each triad prioritizes the three items according to usefulness in the situation presented in the vignette. The one s/he has chosen as most useful is the one s/he will use in the simulated Action Plan activity later on. When the activity is completed, have participants exchange papers and discuss.

After the workshop, total the number of factors from page
41 which were used. Individuals should have used at least six
of these criteria in rating each resource in order to meet
Objective 4.

BREAK: Relax!
(15 min.)

Step 3. Planning for Action

GOAL: To give participants practice in developing a plan for imple--
menting a resource, using a simulated setting. (Practice for
Objective 5)

TEXT: Have participants read text on pp. 47-48.
(5 min.)

ACTIVITY: Have the group work in the same triads. Ask the same three to
(15 min.) work together to fill out a Resource Action Plan Guide for one
of the resources they selected in the previous evaluation exer-
cise.

If none of these resources is at all satisfactory, they
may select another which they feel would be more appropriate.

After they have finished the exercise, group the triads
into sixes to evaluate each other's action plans.

CUSTOMIZING THE RIM

GOAL: To help participants work through the whole RIM using real
resources in their own settings. (Objective 5, and a second
opportunity to fulfill Objective 4)

TEXT: Read the first two paragraphs of text aloud (page 50). Parti-
(5 min.) cipants may follow if they wish.

ACTIVITY: Respond to any questions. Then have participants complete this
(35 min.) section (through page 55), working individually. (Or you may want
to have groups from the same setting work together. In this case
they meet the objectives as a group instead of individually.)

Remind participants that they may wish to use a resource
identified earlier on the Current Resource Inventory sheet
(p. 14).

Have them exchange Resource Evaluation Forms and Resource
Action Plan Guides and discuss.

NOTE: YOU will evaluate the participants' efforts at a
later time. Evaluation of this activity consists of two parts:
(1) three Resource Evaluation Forms; and (2) one Resource
Action Plan Guide. The Resource Evaluation Forms are
evaluated the same way as before, by totalling the number of
criteria from page 41 which were used. The Resource Action
Plan Guide is evaluated by checking to see if at least three
activities are listed in each of the three categories of the
Action Plan.

RESOURCE ATTITUDES POSTASSESSMENT

GOAL: To compare resource attitudes held after experiencing the
            program activities with those held before doing so.

            (Objective 6)

TEXT: Have participants read text on page 56.
(3 min.)

ACTIVITY: Have participants fill out the inventory just the way they did
(7 min.)
            at the beginning. Distribute the original Inventories and have

            them compare this Inventory with the first one. Give them a

            chance to discuss their ratings with each other. Collect both

            pre-'and postassessments.

GOAL: Describe References, answer any final questions which the parti-

            cipants may have, and conclude the day's activities.

ACTIVITY: Describe References* to participants.   Discuss briefly any ques-
(5' min.)
            tions which participants have about the program or the materials.

            Thank them for coming and express the hope that they feel more

            resource resourceful as a result of the day's experiences.

*Note: The Appendices are used earlier in the section on Nonhuman

            Resources.   They need not be discussed again.