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ABSTRACT

The quide is designed primarily for industrial arts teachers at the middle school level who wish to integrate career education into their curricula. The lessons and activities attempt to establish a balance among career information, technical information, and hands-on experience. The guide contains six lesson plans which cover the topics: the world of work, knowing yourself, manufacturing and you, sources of information, labor-management relations, and job traits. It also contains a sample six-week mechanical drawing/career education unit plan for seventh graders. The bulk of the guide comprises detailed descriptions of 21 implemented activities including such things as: questionnaires, interviews, slide shows, manufacturing a candle sconce, guest speakers, role playing interviews, and a career crossword puzzle. The format of each of these activities is: introduction, objectives, procedures, content, evaluation, and materials. The guide also contains: three pages of suggested activities, suggested materials for evaluating the career education project, 12 transparency masters, procedures for writing and samples of public relations news releases, sources of information for 15 career clusters, a glossary, and an eight-page bibliography of career education materials. (JR)



INDUSTRIAL ARTS CAREER EDUCATION PILOT PROGRAM

CAREER EDUCATION INSTRUCTIONAL PLAN

Department of Industrial Arts and Technology

State University of New York College of Arts and Sciences Oswego, New York 13126 Spring 1974



PREFACE

This instructional guide is the result of the implementation of career education in industrial arts classes in a total of eight selected public middle school student teaching centers during the 1973-74 school year. The field testing of pilot programs in industrial arts is an optional student teaching assignment conducted by the Department of Industrial Arts at the State University College at Oswego. This cooperative college/public school program has been in operation for several years.

The material in this guidelis a composite of the successful activities implemented through either career education "minicourses," or a series of related activities infused into an ongoing program. This compilation of information is viewed as being valuable to the teacher who wishes to include career education in his industrial arts program.

The participants and staff of the Industrial Arts Career, Education Pilot Program thank the cooperating consultants, building principals, and the students in each of the pilot centers for making this field test of career education in industrial arts possible.



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CAREER EDUCATION

Career education is an essential part of a student's education that should be infused into the total educational system of curriculum, instruction, experience and counseling through the home, school, and community. Being exposed to a wide variety of careers at an early age will help prepare a student to become socially and economically independent. The ability to make intelligent decisions about his career options will also help him to achieve personal fulfillment in his life's work. The educational emphasis is on the relationship between what the student is asked to learn and what he will some day do as a living.

Career education is a developmental process, rather than an event which occurs at a certain time in an individual's life. Career development must be comprised of many varied objectives and instructional activities that occur from kindergarten through post secondary and adult education levels. At the elementary level, programs are designed to familiarize students with the many kinds of work people do and the relationship of work to the production of goods and services. In addition, students develop an awareness of themselves and the world of work. At the middle school level the program is laboratory centered, giving students experience with the kinds of activities performed by persons in a wide range of occupational pursuits. Courses at the high school level are designed to prepare individuals for enrollment in vocational courses, technical education programs or institutions of higher education.

The remaining educational level is that of adult continuing, and higher education, made up of awareness and exploration activities with laboratory experiences. The program is designed for adults and out of school youths, who may benefit from broad basic instruction related to industrial and technical occupations, or may better understand the industrial world and the profitable use of recreational and leisure time.

Career education should help prepare the student for a lifetime of work in a career he will enjoy - one that will fulfill his personal needs as well as helping him to become a productive member of society.



A RATIONALE FOR CAREER EDUCATION

in

INDUSTRIAL ARTS

The purpose of this program was to explore the implementation of career education in industrial arts classes at the middle school level. Career education has become one of the most important issues in education today. Ever since Sidney Marland coined the term "career education", in 1971, it has been the most talked about and written about issue in the field of education. Marland proposed, "that a universal goal of Americal Education, starting now, be this: that every young person completing our school program at grade twelve be ready to enter higher education or to enter useful and rewarding employment."

The problem today lies in the indecision so many young people have, concerning what they should do with their lives. The magnitude and intensity of the problem currently faced by society and the educational profession in preparing individuals to become effective, contributing members of society has brought about the need for career education.

In today's world of rapid social and technological change, there is no more important way of helping students, than through the acquisition of basic skills. Therefore, career education may be easily adapted to the industrial arts classroom, where skill development is a major goal. The industrial arts classroom can provide a wide range of activities for career education programs. Through hands-on experience, manufacturing units, and clean up, student can acquire basic skills and become familiar with job responsibilities and working conditions.

The purpose of this booklet is to assist the classroom teacher in implementing career education in the curriculum he is currently teaching. This booklet is not restricted to industrial arts and teachers of other subject areas will find the activities covered easily adaptable to their own situations.

Coreer education should be an important part of every industrial arts class. Each industrial arts teacher should in one way or another attempt to implement some of the activities covered in this booklet, and those in the many other recent publications dealing with career education.



Literature Cited

- 1. Bailey, L. J., Stadt, R. <u>Career Education new approaches to human development</u>, Illinois, Mcknight, 1973
- 2. Deay, A. M., Straus, N. A., Wilcox, J., Infusion Models career education in the elementary school, N. Y., State Department of Education, 1973
- 3. Speech by Sidney P. Marland Jr. delivered at the conference of Pennsylvania Personnel and Guidance Association, Nov. 1971 Pittsburgh, Pennsylvania.

OBJECTIVES FOR CAREER EDUCATION in !'IDDLE SCHOOL INDUSTRIAL ARTS

The following objectives were followed throughout the pilot program. The activities chosen for implementation were chosen on the basis of these objectives. Most of the activities were easily adaptable to industrial arts classes. However, these objectives may also be used in the implementation of career education in many other subject areas.

To help students:

- 1. Become aware of related careers.
- 2. Develop methods for intelligent career exploration.
- 3. Discover their interests and abilities and relate them to careers.
- 4. Relate their emotional and physical needs to careers.
- 5. Develop appropriate attitudes about the personal and social significance of work.
- 6. Understand the decision-making process and develop decision-making skills



APPROACHES TO CAREER EDUCATION

Career Education can be taught by using many different approaches. The degree to which career education is integrated into a program can range from a separate self-contained unit on Career Education, to a totally infused program, with career information considered as an integral part of the topic under study. Career Education can be used as an introduction to a unit, or as an introduction to a lesson. It can be included in lessons as information related to the general topic. While doing class work on an area of study, students can do homework assignments in Career Education that are related to the unit being studied.

Career Education is an attempt at bringing relevance to the abstractions that are studied in classrooms by relating them to the many occupations found outside the school setting. A balance should be established between career information, technical information, and hands-on experience, in order to give a career unit the most meaning to the students. Without support from and correlation with other subject areas, each area of study can become just so much more abstract information. Unless information can be put in a framework of reality, it will not be internalized and learned, which is the purpose and goal of all education.



World of Work

Objectives: Students will have an understanding of the work ethic

- 1. will be able to list reasons for work 2. will be able to define career, job, work
- 3. will realize need for awareness and exploration of various careers

Introduction: your future depends on your education and job skills....choosing a career is one of your most important decisions

Instructional steps:

- A. Reasons for work
 - 1. self satisfaction
 - 2. sense of contribution
 - support
 - 4. luxury
 - 5. responsibility
- 6. whatever jobs the students can name
- B. Terms
 - 1. work: any kind of planned and responsible activity in which an individual engages with an expectation of getting a gainful return for his efforts
 - 2. job: group of similar positions in a single plant, business establishment, or educational institution (a regular remunerative position)
 - 3. career: the course of an individual taken in his progress through life
- C. Why make a study of jobs?
 - 1. choice may determine if you will be employed or not
 - 2. choice may determine success or failure
 - 3. choice may influence other aspects of one's life
 - 4. choice may determine how much one enjoys his work

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5. choice will affect the distribution of manpower

Termination: Choosing a career is a very important decision, probably the most important of your life. By beginning a study now, your choice will be easier and more confident.

chalk board Materials: cha1k

References:

Feingold, S. Norman Occupations and Careers, McGraw-Hill Book Company, 1969, pp.2-11.

Hoppock, Robert Occupational Information, McGraw-Hill Book Company, 1967, pp.1-5



Knowing Yourself

Objectives: Students will relate self awareness to career choice

- 1. will relate interests and abilities to careers
- 2. will relate emotional and physical needs to careers
- 3. will determine what a value is and some of his values
- 4. will appraise his strengths, actions, and personality

Introduction: every individual is different...own interests, abilities, needs, values...these characteristics will play a part in your career choice... one needs to look at one's self

Instructional steps:

- A. Interests and abilities
 - 1. interest: a liking for something; hobbies
 - 2. <u>ability</u>: relative capability of doing certain things; academic, mechanical, physical
- B. Emotional and physical needs
 - 1. physical: air, water, food, shelter
 - 2. emotional: affection, acceptance, success, adventure
- C. Values: what something is worth to a person, what he is willing to do, or pay, or give up for it
- D. How are these characteristics related to career choice?

Termination: Self awareness is a continuing process. People change over a period of time. Interests, needs, values will change which might call for a change in occupation. Don't fall into a rut.

Materials: Self Appraisal Chart

References:

Feingold, S. Norman Occupations and Careers, McGraw-Hill Book Company, 1969, pp.12-19

Career Development Resource Guide, Grades 6-8

It's Time to Plan, Howard County Board of Education, Clarksville, Md.



Job Traits

Objectives: Students will understand job traits 1. will list job traits to consider

2. will use these traits to analyze various jobs

Introduction: in order to analyze a job we must have a list of criteria....what are some things that make up a job?

Instructional steps: A. Job traits

1. nature of work

2. mental requirements

3. personality

4. educational and training requirements

5/ entrance into occupation

a. formal examination

b. license or certification

c. membership or union

6. Possible restrictions

a. strength

b. age

c. personal appearance

d. height

e. weight

7. working conditions

8. supply and demand of workers

9. income, promotion, security

Termination: By knowing yourself and identifying job traits

you are on your way to exploring jobs.

Materials: chalk board

chalk

Resources:

Granger, Kolene M. <u>Junior High Career Guidance</u> Curriculum, Utah State Board of Education





Sources of Information

Objectives: Students will be aware of different sources of career information

- 1. will be able to list different sources of career information
- 2. will know how to use these sources

<u>Introduction</u>: You wish to explore or research an occupation.... where do you find the answers?

Instructional steps:

- A. Original sources
 - 1. worker who does the job
 - 2. employer
- B. Intermediate sources
 - 1. guidance counselors
 - 2. teachers
 - 3. labor unions
 - 4. government bureau which issues licenses and regulates employment
 - 5. professional, trade, and business associations
- C. Publications
 - 1. Occupational Outlook Handbook
 - 2. Dictionary of Occupational Titles
 - 3. career fiction
 - 4. biography
 - 5. occupational monograph
 - 6. occupational brief
 - 7. business and industrial descriptive literature
 - 8. government publications
- D. Audio-Visual Material
 - 1. charts and posters
 - 2. films
 - 3. film strips
 - 4. recordings

Termination: There are many sources of information. Be aware of them and know how to use them in helping you explore occupations.

Materials: handout of outline

References:

Hoppock, Robert Occupational Information, McGraw-Hill Book Company, 1967, pp.27-43

Norris, Willa The Information Service in Guidance, Rand McNally and Company, 1960, pp. 117-159



Manufacturing and You

Objectives: Students will gain an understanding of manufacturing

1. will be able to define manufacturing

2. will understand importance of manufacturing 3, will be aware of social and economic effects

Introduction: we have a system of production and manufacturing which is basic to our way of life....you will all contribute to this system some day.... should have understanding of it

Instructional steps:

A. Manufacturing: "the making of large numbers of an article on a mass production basis using machines to produce identical parts which may be used interchangeably."

B. Importance: social and economic effects

- 1. need for providing products to the community: one is unable to be self sufficient in todays
- 2. need for interchangeable replacement parts

3. increase quality of products4. lower cost of items, thereby making them more available to more people

5. creation of jobs as result of people being able to buy more items due to decrease in price

6. gives leisure time to workers

7. growth of large industries helps cities grow

8. provide work for women

9. development of labor unions

10. provision of sick leaves, vacation and hospitalization

Termination: Man has come a long way from the stone age. are living in a very sophisticated world. Where will we go next? What part will you play in our future?

Materials: chalk board

chalk

References:

Haws, Robert W. Manufacturing in the School Shop, American Technical Society, 1972, pp.1-22



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Labor-Management Relations

Objectives: The student will be able to:

- define labor in terms of skills, time, and salary
- 2. define management in terms of expense, sales, and profits
- 3. demonstrate the use of collective bargaining to solve a labor dispute
- 4. describe the importance of good working conditions, and the efficient use of manpower to increase profits and salaries

<u>Introduction</u>: There are two main forces in any business: labor and management

Instructional steps:

- A. Define the terms, labor and management
 - 1. labor: skills x time=salary
 - 2. management: sales-expense=profits
- B. Role playing: paid construction of a spray booth
 - 1. divide the class into two equal groups
 - a. prepare one group to be labor: the school will pay \$300.00 to construct a spray booth and the students will do the work and will be paid by the management
 - b. prepare the other group to be management: the school will pay \$300.00 to construct a spray booth; this group will run the job, pay labor, and keep the surplus as profits
 - 2. bring the class together to negotiate the terms of the job
 - a. let the two groups haggle for three or four minutes
 - b. inform the class that they are role playing
 - 3. collective bargaining
 - a. labor and management state their needs in the form of contract proposals
 - b. reach a compromise that fills as many of the needs of both groups as possible
 - c. arbitrate the main points of difference
 - d. ratify the contract
 - 4. improved efficiency means higher profits and salaries
 - a. werking conditions (temperature, light, air quality)
 - b. good craftsmanship cuts waste and improves the product
 - c. work at a steady rate and don't waste time
 - d. breaks to rest and relieve boredom
 - e. rotate jobs or work in small groups



- f. think of ways to speed up production and save time
- g. profit sharing with employees

Termination: Hand out a ditto of terms as a review

Materials: ditto of terms for review



Name
Labor-Management Review
A. Define the following terms:
1. Labor
. 2. Management
3. Arbitrate
4. Compromise
5. Ratify
B. List five ways to improve efficiency and increase profits and salaries.
1.
2.
3.
4.
5.

Unit Plan

Class

Seventh grade mechanical drawing and career education

Duration

Six weeks, five forty-five minute periods per week

Units to be covered in the seventh grade

- A. Mechanical Drawing
- B. Career Education

Objectives

The student will:

- 1. understand the importance of drafting as it relates to industry.
- 2. gain a working knowledge of the careers in drafting.
- understand the correct use of drafting tools.
- 4. understand that mechanical drawings are composed of at least one basic geometric shape.
- 5. be aware of possible careers in the drafting industry.
- 6. develop an awareness of the concept of "career", its definition, importance, value, etc.
- 7. develop an insight into the careers available and the need for career planning at this stage in life.
- 8. develop:
 - a) self awareness.
 - b) career awareness.
 - c) ability to identify realistic career choices.
- 9. identify information sources available for career exploration and decision-making.
- 10. understand some of the life adjustments required to select an occupation in the world of work (e.g. location, boss/worker, salary, etc.).
- 11. understand the concepts of responsibilities, working conditions, basic skills, etc. through shop experiences.
- 12. be aware of the changing employment patterns and opportunities in the world of work.



Note

This unit plan can be used as a means for infusing career education into any curriculum area. In this case the curriculum area of mechanical drawing has been used to infuse career education.

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Full Text Provided by ERIC

	Demonstrations, Related Lessons	Student Activities	Instructional Materials
Se i	Career orientation How to obtain career information	Make a list of the occupations related to a piece of wood.	0.0.H., D.O.T., Blackboard SRA files, library books, and pamphlets from GOOP. Handout sheet of iob interests
#13 <u>34</u> #1	Orientation to Drafting	Fill out handout sheet on an occupation interest.	Blackboard
: -		Cut out pictures of jobs in magazines	Handout sheet on sketches.
		Start on sketches	Text: Brown, W. Drafting,
17		Homework, Unit # 1 Ques. 1-3 Unit # 2 Ques. 1-6	Goodheart-Willcox.
-		Work on sketches	
	Career investigation	Bulletin board display of pictures of jobs in city.	Handout sheet of job interest.
≥ μ	Why study occupations	Bulletin board of a career tree.	Library resources
1 m ×	Measuring, reading a ruler	Finish handout sheet of job interest	Bulletin boards
* 0	סומשיוול כלתי לייוניור	Finish work sheet on sketching	Text
l		Start on lettering plate	
		Homework, Unit # 4 Ques. 1-7	
		Work on lettering plate	

	Demonstrations, Related Lessons	Student Activities	Instructional Materials
	Self awareness	Role playing a career on video	Video tape recorder
3	How occupational choice affects	tape	,
ш	life off the job	Finish bulletin boards	blachOoald
ш ×	Geometric construction	and after a second and a second a second and	Handouts for self awareness
; ±		jobs related to industrial arts	Old newspapers
e 19	raits of a drawing	Start drawings	fext
٠,		Homework, Unit # 9 Ques. 1-4	
18		Work on drawing	-
	What's My Career	Sendants invoctinged and dead	
*		a picture of an occupation of	opaque projector
3	Student discussion of the	their choice.	A.V. equipment
: ពា ព	Orthographic drawing	Panel game	0.0.H. and D.O.T.
1× 4	8	Students discuss their drawings using the opaque projector	Text
. 4		Homework, Unit # 3 Ques. 1-6	
		Start on three view drawing	

tivities Instructional Materials	Choose a career, and fill out Library for research, and the handout	3×5 cards sketches Handout on job or career interest	Unit # 7 Ques. 1-7 Text	Start on drawing on page 60 Drafting equipment fig. 7-5 (half scale)	Paper, pencil	eakers Outside speakers	Unit # 11 Ques. 1-7 Text	Work on drafting activity on Drawing paper and equipment page 86	Start on floor plan on page 87 drawn to 3/16" = 1' scale	oor plan	
Related Lessons Student Activities		Panel game Isometric sketches	Homework, Unit # 7	Start on di	•	 ng and Outside speakers	Homework, Unit # 11		Start on f drawn to 3	Work on floor plan	
Demonstrations, Rel	20 Question Career Game Pictorial drawings					Speakers on drafting and	ceramics	AIGIILECLUIAI GIAWING			73
								u m ×			

Career Questionnaire

Introduction

Using this questionnaire developed by the class, you are to interview someone with a job that interests you. These questions are a guide. If a question does not apply or the person does not want to answer for personal reasons, you may leave it blank.

Pay

- 1. Do you get paid by the piece, the hour, the day, the week, the month or the year? How much does this add up to in a normal year?
- 2. Is there a bonus or profit-sharing program?
- 3. What do you get for working over-time?
- 4. Do you get any paid vacations or holidays?

Benefits

- 1. Is there an insurance program within the firm?
- 2. Do you receive traveling expenses?
- 3. What kind of pension plan is offered?
- 4. How often do you get days off?
- 5. Do you get sick pay or compensation benefits?
- 6. Is your job seasonal?

Working Conditions

- 1. Do you work for someone else or are you self-employed?
- 2. Are you a boss or are you under a boss?
- 3. Do you meet many new people on the job?
- 4. Do you work part time or full time?
- 5. Are there any hazards connected with your work?
- 6. What are the safety provisions where you work?
- 7. Do you sit or stand?



- 8. Do you work indoors or outdoors?
- 9. How much time do you get for lunch and coffee breaks?

Job Requirements

- 1. What type of preparation did you go through and how much did it cost?
- 2. Where do you have to work and how much traveling is involved?
- 3. How difficult is the work?
- 4. What hours do you have to work?
- 5. Did you have to join a union? If yes, how much does it cost and what do you get in return?
- 6. What exactly are you required to do? (example- a deliveryman for a large bakery must be at work at 5:30 or 6:00 in the morning to load his truck with fresh bread, he must stop at several stores along his route, at each store he must fill the shelves with fresh bread, remove stale bread and make out a bill, at the end of the day he must make a list of what he will need the next day, he may be done at 1:00 or 2:00 in the afternoon)

Student Developed Career Questionnaire

Introduction

By using questions designed by students they are more apt to take an interest in the implementation of the questionnaire.

Objectives

The students will be able to:

- 1. identify aspects of a career that would affect his choice of a career.
- 2. identify the particular aspects of a career that may interest him.

Procedure

- 1. The development of the questionnaire may follow a class discussion of aspects of a career you should be aware of.
- 2. As an in class or homework assignment have the students list five questions that they would like answered before they accept a job.
- 3. Compile questions to eliminate duplicates and poorer questions.
- 4. Reword questions so that they require more than a one or two word answer.
- 5. Categorize questions and prepare as a ditto.
- 6. Hand out questionnaire and explain that all questions were prepared by students and that their assignment is to ask the questions of anyone with a job that interests them. A parent, relative, neighbor or friend may make a good subject.
- 7. When questionnaire have been completed they may simply be evaluated by the teacher. If time permits and you are working with the right group you may want students to share information they have found with either a short presentation or a question and answer period.

Contents

A sample questionnaire may be helpful to get the class started.



Evaluation '

The questions on the sample questionnaire did allow a lot of possible yes or no answers. The original intent of the assignment was for students to research a career that interested them, however, a majority interviewed their parents. Even though the students thought this the easiest way to complete the assignment they did gain a greater insight into the responsibilities of work.



Student Interest Inventory

Introduction

Career education, it has been found, should include many aspects of personality and character awareness for individual growth. One way to promote this growth is with the aid of an interest inventory.

Objectives

The student will be able to:

- 1. Identify subject, hobby and extra-curricular areas of personal interest.
- Identify important personal character traits.
 Recognize the relationship between personality traits and careers.

Content

A very important segment of career education is the awareness of "self". An individual, unless lucky, could not possibly find an occupation to suit his, or her, needs without some knowledge of strengths, weaknesses, preferences, and the like. Devices used to measure these interests, and hopefully stimulate self-awareness have been in use for some time. Some are more scientific and reliable than others.

Procedure

A discussion related to self-awareness acted as an introduction or preparation to the interest inventory. A discussion following might also have been of some value.

Evaluation

The interest inventories used were quite subjective and open to interpretation. There was no way of qualitatively evaluating student responses, and no assurance of honest answers. In view of that, it may have been more useful to use one of the many scientifically designed tests. As it was, the interest inventory served primarily to stimulate self-awareness.



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An interesting contrast might be seen by testing a student group before and after a career education unit. The results could serve as a measure of the studentslearning.

Supportive Material

The following are examples of interest inventories that can be used with this activity.



Interest Inventory

- 1. What courses of study have you enjoyed most in school, and why?
- What courses of study have you disliked most in school, and why?
- 3. What jobs have you held (either part-time or during vacation) and what were your duties?
- 4. Which jobs interested you most, and why?
- 5. Which jobs did you dislike most, and why?
- 6. If you have only held one job so far, write down what you liked about it and what you disliked about it.
- 7. Suppose you were financially independent and perfectly free to do anything you wanted, what life work would you select, if any?
- 8. Is there anything that you do which interests you so much that you lose all sense of time and forget all about watching the clock?
- 9. Do you have any special preferences as to where you would work: indoors, outdoors, in larger cities; smaller towns, rural areas, or in any special part of the country or world?
- 10. What hobbies have sustained your interest over any length of time, and why?
- 11. What do you read about, outside your regular school assignments, and why?
- 12. What extracurricular activities have you engaged in at school? Which ones did you like best, and why?



- 13. What community activities outside of high school have you particularly enjoyed, and why?
- Have you ever built or invented or written or created anything original that particularly pleased you and that you considered to be your very own?
- What type of work do you feel you would best be able 15. to perform - creative work, administrative work, executive work, line work? What makes you think so?
- 16. What are your strong points and your outstanding abilities? At what age and in what connection did these abilities begin to show themselves?
- 17. What are your weaknesses?
- What kinds or types of people do you enjoy associating with the most? Describe their characteristics.
- 19. Do you like to work with other people or would you rather work alone?

- 20. Explain any other personal likes or dislikes that you may have in relation to other people.
- 21. In your spare time, do you try to get off by yourself and spend time alone, or do you consciously seek the company of others?
- 22. Do you want to take the initiative in meeting people, do you want other people to come halfway, or do you prefer that others take the initiative incoming to you?
- 23. Do you enjoy trying to persuade others to your point of view?

Student Interest Inventory Career Education

Name					Ag	e	
What	was y	our las	t year	r's scho	lastic a	verage?	
	high_		avera	ge	below	average	low
List	the s	subjec t s	that	:		•	
	you J	Tre Tes	ist				
Do y	ou pla	an to gr	r a dua t	e,from h	nigh scho	001?	
If y last	ou do grade	not pla you pl	an to lan to	graduate complet	e from hi	igh school,	circle the
	Grade	е	9	10	11	12	
If y	ou pla	an to 1	ea v e h	igh scho	ool, stat	te briefly w	hy.
What	do y	ou plan	to do	when yo	ou lea v e	high school	?
	go go	to coll to trad	ege e scho	ol	go to	o work o business	enter military
What	are	your ho	bb ie s?	•			
What	kind	of job	world	you li	ke? 1st	choice	
2nd	choic	е			3:	rd choice _	
Reas	ons f	or 1st	choice	?			
				•			
What	t kind	of iob	would	l you li	ke to kn	ow more abou	ıt?





Parent Intérview

Introduction

This assignment is in place of an assignment which has the student spending the day with his mother/father at work. Through the use of specific questions a little more insight is given to each student about different careers. Through group discussion of each others parent's occupations this insight is developed.

Objectives

The student will be able to:

1. identify many different jobs.

2. restate some specifics about a given occupation.

Procedure

Hand out questionnaire. The student will fill them out with parents and return to class the next day ready to discuss them.

Note: a circle is effective for this discussion.

Content

See attached questionnaire.

Evaluation & Recommendation

This assignment worked fine. All students cooperated and the discussions were really good. There was some surprising occupations and a lot of good questions and discussion. A recommendation would be to watch the questions closely, so that they require more than just a yes and no answer.



Parent Interview

Directions

-
Worker's responsibilities
Product being manufactured, if any
Description of job:
travel involved equipment involved hours worked union membership
Mental abilities required

Physical abilities needed ______

Preparation needed for the job (apprenticeship, on the job training, high school, college, etc.)	_
Things you like about your job?	
Things you dislike about your job?	_
Other information	_

Parent Interview (alternate form)

Name of company and address.

Name or title of position.

Job responsibilities (list several)

Product being manufactured, if any.

Job description

travel
operate equipment
hours worked
safety program
working conditions

Does this person belong to a union? If so, which one?

Is this person satisfied with his/her occupation?

Why or why not?

Would this occupation interest you? Why, or why not?



A Day with a Parent

Introduction

This activity is designed to familiarize the student with their parent's occupation. Each student is excused from school for one day and spends that day with his parent on the job.

Objectives

The student will be able to:

- 1. Complete the questionnaire about his/her parent's occupation.
- 2. Present an oral report to the class describing their parent's occupation.
- 3. Answer questions raised by the class regarding their parent's occupation.

Procedure

- 1. Review the personal data cards of your classes to decide which class would be best suited for this activity. Things to consider are, does the student have parents? etc.
- 2. Discuss the activity with the class to see the student reaction to the idea.
- 3. Pass out the permission slips and information sheets and explain what their responsibilities are so that you can arrange their day off from school in advance.
- 4. The day following their excused day, the students will present an oral report on what they learned about their parent's occupation.
- 5. Encourage the students to bring in product samples, forms used, pictures, equipment, clothing worn, etc. which will help them present their report.
- 6. Encourage the class to ask questions during these reports; you might find that you must lead the questioning.
- 7. Be prepared to supplement points of interest that come out of these reports; relate to your own work experiences.

Content

See work sheet and permission slip



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Evaluation

This activity proved to be very successful. The students broadened their knowledge about careers not only thru the day with their parent but by listening to the oral reports in class as well. Each student is exposed to as many careers as there are students in the class. Many relating points for discussion are brought about thru these reports. The students receive a good exposure to career education thru this activity.

Parent's Occupation-Work Sheet

Pare	nt's position (name)
Pare:	nt's responsibilities (list some).
Prod	uct being manufactured if any.
Desc	ription of your parent's job.
с.	Does he/she travel? Operate equipment (type). Hours worked (time, when to when). Describe the safety program.
Doe s	your parent belong to a union?
lict	some of the interesting things about this occupati
LIST	

Permission Slip

We would like each of the students to spend a day with their parent to learn about their occupation. We realize that in some cases this might not be possible. Please indicate your interest to take part in this career education program by listing a date convenient for you and your son/daughter to spend together.

	allow my son/daug with me and lear		occupation.	to
		•		
(Signa	ature)		(Date most	convenient)



On the Job Interview

Introduction

Most students at the middle school level have little idea of what actually goes on in a working environment. Through the use of the video tape recorder the teacher and the students are able to interview various people at their places of employment to discover the different aspects of a particular career.

Objectives

The student will be able to:

- describe the environment of a particular job.
- list the responsibilities and qualifications of a particular job.

Procedure

Teacher interviews

- Select occupations that students might be unaware
- of (e.g. pharmacist, glazier, sheet metal worker). Propare questions that would require answers with some depth of explanation.
- Find willing people in the occupation and explain 3. the activity and your questions.
- Begin interviewing and video tape the person 4. working three to five minutes. Another person, as a helper, will probably be most effective.
- Record three or four interviews to provide a good length tape (If you have the facilities you may want to do some editing).
- 6. Introduce the tape to the class.
- Present the tape to the class.
- Discuss the presentation.

Student interviews

- After viewing the teacher-prepared tapes ask for names of students who are interested in using a video tape recorder and interviewing people on their jobs.
- Select a small group (4-6) to work on the activity.
- Find one company that has people in various occupations working for them. (e.g. auto-dealership, factory, department store).

- 4. Obtain permission to conduct activity and find out who can be interviewed.
- 5. Instruct the students in the use of the video tape recorder and help them formulate some questions.
 - a. One hour or more will probably be needed. This may be during or after school, whichever is convenient.
 - b. It may be necessary for the teacher to help the interview get started with his own questions.
 - c. It is more than likely that some editing may be necessary. If editing facilities are not available some may be done by writing down the intervals of time and take-up reel revolutions to be eliminated.
- 6. Introduce the tape to the class.
- 7. Present the tape to the class.
- 8. Discuss the presentation.

Evaluation

The video tape recorder was found to generate a great deal of interest. A short teacher-prepared tape was used to show the students what they could possibly do. It is most important to be selective in your choice of interviewers, they should be prepared with appropriate questions. Although all of the students were not involved in the interviewing, most were interested in the tapes and did get exposure to some careers that they were unaware of.



Job Application

Introduction

This activity is used to acquaint the student with the type of questions that are on a job application.

Objectives

The student will be able to:

 identify the kinds of questions asked on a job application form.

2. identify five important factors needed to get a job selected from a newspaper classified ad.

3. fill out job application for a position in the shop personnel system.

Procedure

1. Present industrial job applications and discuss the types of questions on it.

2. Permit students to select a help wanted ad from the newspaper.

3. Have students identify five factors needed to get the job they selected from the newspaper.

4. Have students fill out job applications for positions in the shop personnel system.

Evaluation

This activity went well. The students identified the factors and discussed what job they had found and what factors where needed. Many discovered that the jobs they wanted required a high school education.



APPLICATION FOR EMPLOYMENT AN EQUAL OPPORTUNITY EMPLOYER

PLEASE FILL IN ALL BLANKS

Name Address . No. & Street Telephone City State Zip Soc. Sec. No. Notify in Check all that apply emergen cy Citizen of US yes no Address Name Male Female Height Weight Birth Date Mo. Day Year (The New York State Law Prohibits Discrimination Because of Age) Present Conditions of Health Are there any Physical Limitations we should consider? _____yes___no If yes, What are they? (glasses, hearing-aid, etc.) Have you ever been convicted of a misdemeanor or a felony? ___ yes ___ no If yes, Explain fully _____ Wages or salary Position for which you are applying? expenses Other positions for which you are qualified? Date available for employment? What interested you in our company? Have you any side line business interests? yes If yes, please explain Have you ever applied Have you ever been employed by Oswego Middle School Const., Co,. yes no for work here yes no If yes, when? If yes, when



	category	Grade School High 1 2 3 4 5 6 7 8 9 Location		5 6
Grade School			Tr. or Grad.	————
High School				
College				
Standing in Hi	gh School Top Qt	r. 2nd Qtr. 3rd	Qtr. Bottom Qtr.	
Other Training (special course operated, typin	es, machines			
	Employmer	nt History		,
Please list all recent employe:		ment starting with	present or most	
Dates Nar	me & Address of E	Employer Job tit	le Describe Major duties	Wages
from Mo Yr to Mo Yr from Mo Yr to Mo Yr from Mo Yr to Mo Yr to Mo Yr to Mo Yr to	- -			
Mo Yr				

information is true an	nd complete to the
	Dodo
	Date
For Personnel	Dept. Use Only:
Dept.	Permanent
Supervisor	Seasonal
Position	Temporary
Rate	Part Time
Starting Date	Male
Review Date	Female
Shift 1	
	
	For Personnel Dept. Supervisor Position Rate Starting Date Review Date



Working Papers

Objectives

The student will be able to list three ways that 1. working papers will prevent him from being exploited by an employer.

Given a working paper application the student will be able to fill in the necessary information to complete the form.

Materials

Guidance counselor

Working paper application ditto

3. Work permit ditto

Pamphlet of "Laws Governing Employment of Minors"

Introduction

Working papers are a protection for you against overwork, under pay and dangerous jobs. They register you with the State Education Department and entitle you to all the rights and privileges of the State Labor Laws. What are these privileges?

Prohibited Occupations- Boys under sixteen years old can not work in:

factory workrooms 1.

with dangerous machinery or chemicals

cleaning, oiling or wiping machinery

packing paints, dry colors, red or white lead

erection of buildings or structures demolition of buildings or structures 6.

operating steam boilers 7.

industrially related homework 8.

places of entertainment dangerous to life, limb, 9. health or morals

'Hours of Work- Boys under sixteen can not work more than:

1. three hours on a school day

eight hours on Saturday or non-school days more than twenty-three hours per week

more than six days per week

between 6 pm and 8 am on most jobs



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Minimum Wage- In New York State the law guarantees every employed person must be paid at least \$2.00 per hour.

All through your life you will be expected to fill out applications of all types. Whether it is a job application or income tax forms or any one of the millions of applications it is important that they be done correctly.

An application is a legal document. If you knowingly put down a false answer to a question you have broken a law.

Read last paragraph on the application.

An application is not a permit to work. Be sure to obtain working papers and carry your permit card at all times while at work.

Conclusion

Why do you need working papers? What do they quarantee?

Reference

"Laws Governing Employment of Minors", N.Y.S. Labor Department, 1965

Social Security

Introduction

This activity is designed to familiarize seventh and eighth grade students with the Social Security Act and the protection it can offer them.

Objectives

1. The student will be able to successfully apply for a Social Security number.

2. The student will be able to describe the benefits

of social security.

3. The student will be able to describe how an employee will contribute to social security.

Procedure

This activity can be conducted by either the classroom teacher or a guidance counselor or an officer from the local social security board. The class will meet as one group in any manner that formal lectures are normally conducted.

Content

Social Security application forms will be passed out to students and they are shown how to fill them out as a group with the guidance of the instructor. The instructor will now present a short history of Social Security, and explain its general purpose. With the aid of the instructor the students will now make a list of the benefits of social security. At the end of the activity any unanswered questions should be written down and submitted to a local Social Security Office.

Evaluation

The students were able to fill out their Social Security applications and seemed interested in doing so. They made a fairly accurate list of Social Security benefits which was rounded out by the instructor. Students could also explain how they would contribute to Social Security from their future salaries.



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Occupational Information

Suggestions for students seeking jobs.

- 1. Tell relatives, friends, neighbors that you're looking.
- 2. Tell your minister, rabbi or priest, your doctor and dentist.
- 3. See your school counselor or placement offices.
- 4. Tell teachers, advisors, or other school personnel.
- 5. Alert school or college alumni associations.
- 6. Alert your librarian and local businessmen you deal with.
- 7. Get in touch with any employers you have worked for.
- 8. Examine the classified telephone directory for employer names.
- 9. Telephone prospective employers for interview appointments.
- 10. Pay personal visits to places of employment.
- 11. Send letters of application to likely employers.
- 12. Read classified ads ("Help Wanted") in newspapers.
- 13. Read classified ads in trade and professional magazines.
- 14. Read bulletin boards at supermarkets and other places.
- 15. Visit unions and trade and professional associations.
- 16. Visit fraternal organizations, service clubs, other social groups.
- 17. Visit chambers of commerce and manufacturers associations.
- 18. Visit churches and synagogues and religious organizations.
- 19. Register at private employment agencies for temporary jobs.
- 20. Register at the State Employment Service office.
- 21. Register at Volunteer Bureau for non-pay jobs.
- 22. Apply at local, state, and federal civil service offices.
- 23. Put "Situation Wanted" ads in daily and weekly newspaper.



Career Slide Show

Introduction

The purpose of this slide show is to expose the students to the many different jobs available in their community.

Objectives

The student will be able to:

- build an awareness of the occupations available within most communities.
- 2. identify the responsibilities related to a number of these jobs.

Procedure

- 1. Arrange students for discussion, identifying points of importance.
- 2. Introduce slide presentation using cassette and slide projector.
- 3. After presentation, have question and answer period.

Content

- 1. Slides (e.g. sheet metal worker, policeman,
- . construction worker, etc.)
- 2. Tape recorded description of each slide.

Evaluation & Recommendation

The presentation went well, the students listened to the recorded descriptions and had questions to ask when the presentation was over.

One point should be made, you can stop the recorder anytime you want if you have an important point to make. Always try to put some enthusiasm in your audio track and have some flow from slide to slide.

Supportive Materials

- 1. Discussion on slide presentation
- 2. Assignment to research a career.



Women at Work: A Slide Show

Introduction

This activity was designed to expose a class of eighth grade girls to a variety of jobs which they might not have considered because of their sex. The slides used in this activity depicted women in a wide range of occupational roles.

Objectives

The students will become aware of different jobs which they might not consider because of their sex by:

1. identifying the characteristics of a job in general.

 researching a selected career from a list of job slides available.

Procedure

1. Students list and discuss job characteristics.

2. Students decide on which characteristics to use in the script for the slide series.

3. Students research the job that they have selected using the criteria decided on.

4. Students write their information into a script.

5. Students select someone to record the script on tapes:

6. Slide series is presented to class with discussion taking place during and after the presentation.

Content

Set of slides produced by teacher.

- 2. Job characteristics used in script research.
 - a. name of job
 - b. nature of work
 - c. educational and training requirements
 - d. benefits, promotions, etc.
- Prepared script by students.
- 4. Recorded script of job descriptions.



Evaluation

This activity was interesting to the students and it accomplished its objectives. They were motivated through their active participation in preparing the slide show. The tape should be stopped whenever a question is posed or a point is to be made rather than waiting until the end of the presentation.



Identifying Career Clusters

Introduction

This activity is designed to expose the student to the cluster concept.

Objectives

The students will be aware of the career cluster concept by:

identifying the different clusters.

 listing different jobs related to a particular cluster.

Procedure

1. Develop bulletin board displaying the different clusters.

2. Have students bring in classified ads or pictures.

3. As students bring in ads or pictures, discuss the nature of the work and necessary requirements.

4. After the discussion, the students place their ad or picture on the bulletin board in its appropriate cluster.

Content

1. Bulletin board displaying the different career clusters.

Classified ads or pictures of workers.

Evaluation

This activity went well but must be developed over a period of time. At the beginning of each class, discuss no more than two of the ads or pictures. Students lost interest when the whole period was devoted to this activity. Students should be assigned a day when they are expected to bring in an ad or picture. As the different clusters become represented, the students should be encouraged to find ads or pictures of jobs that will be a part of a cluster not already represented.



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Occupation of Interest An Investigation of a Career

Introduction

This activity was designed so that the student will become familiar with library materials that are available to him.

The student will also become familiar with occupations of interest to his classmates.

Objectives

The student will be able to:

1. Describe the importance of work and list the educational and occupational requirements of different jobs.

2. Gain a working knowledge of career opportunity

publications.

3. Use the Dictionary of Occupational Titles, Occupational Outlook Handbook, and SRA File Kits, to obtain career information from the library.

4. Present an oral report describing the occupation

of interest.

Procedure

A lesson is given on how to obtain career information from the library. The students will fill out a questionaire and then make a free-hand sketch of the occupational choice. An opaque projector is used to project the sketch on a screen and the student gives an oral report on the career chosen.

Content

See work sheet, free-hand sketch, lesson plan, "How to obtain Career Information".

Evaluation

This activity worked out well. The students broadened their knowledge of careers by listening to the oral reports given by their classmates. Students' interests varied providing a large selection of career choices.



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How to Obtain Career Information

Objectives

The student will be able to use the D.O.T., O.O.H. and SRA files to obtain career information in the library.

Materials

- 1. Occupational Outlook Handbook
- 2. Dictionary of Occupational Titles
- 3. SRA files

Introduction

Where do you look for job information?

Presentation

- 1. D.O.T.- Alphabetical order to find title and job number.
- 2. 0.0.H.- Use of index
- 3. Career files- SRA file kits
- 4. Library books
- 5. Pamphiets

Summary

- 1. We will use all of the above when they are needed to choose a career.
- 2. Discuss the importance of gaining knowledge in all of the above areas.

Assignment

Look up an occupation you would be interested in.



Occupation of Interest

Nature of work

Places of employment

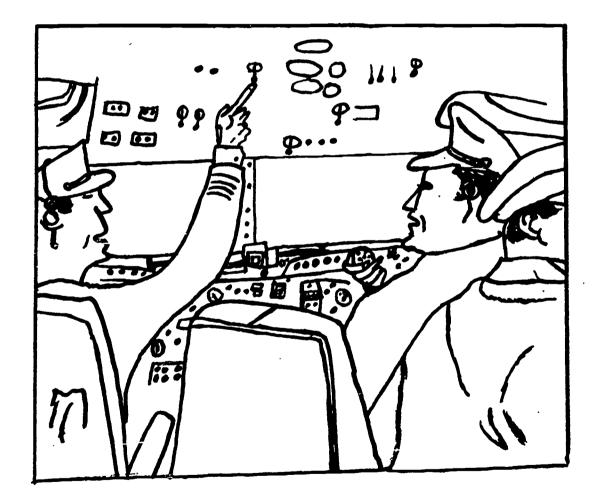
Educational training, other qualifications, and advancement

Employment outlook

Earnings and working conditions



José Goncalves, a seventh grader at Grant Junior High School, chose an airline pilot as his occupation of interest. This drawing is José's free-hand sketch of his occupational choice and the accompanying questionnaire was also done by José as a part of this activity.





Mr. Bartlett 4/1/74 Student Name

José Goncalves

Mr. Zampariello Grant Jr. High School

Occupation of Interest

Directions: Pick an occupation you might be interested in.

Nature of work

Airline pilot

Places of employment

In all parts of the country, but mainly in transportation centers.

Educational training, other qualifications, and advancement

Mathematics, Physics, Chemistry, English and Mechanical Drawing

Employment outlook

The number of airline pilots needed is expected to increase substantially as airline operations increase.

Earnings and working conditions

\$17,500 a year in domestic air transportation and \$21,500 in international operations.

Careers in Construction

Introduction

One goal of the Career Education Pilot Program was to expose the students to as many different types of jobs as possible. However, to do the concept of career education justice, it became necessary to narrow the field of career choices down to a workable size.

The construction industry was chosen as one area to be studied because of the wide variety of jobs it entails. Several activities could also be related to the Industrial Arts classroom.

This "mini unit" of construction was designed to introduce the on the job duties of the architect, surveyor, and excavator, carpenter, and electrician. The unit involved one class of fifteen students and covered nine school days.

Objectives

By the completion of this unit the students will:

- be able to write six job titles related to the construction industry and write a brief description of each job.
- 2. research a construction job in the Occupational Outlook Handbook and complete the questionnaire "Career Information".
- 3. when given a map locating two walls of a house, locate the corner on the shop floor then position and outline, as indicated by the map.
- 4. mix a mortar of lime and sand and lay a two-course cement block foundation for a house corner with two 5' walls.
- 5. measure, cut, square and set a 2x6 sill on the foundation wall.
- 6. measure, cut, frame and secure a 5'x5' floor using 2x6 joists and headers and cover with a plywood subfloor.
- 7. measure, cut, frame and secure two 5'x8' wall sections as shown in drawings 1 and 2.
- 8. wire one light fixture, light switch and outlet, according to local codes.

Procedure

One of the ways the student can learn what it is really



like to be a mason or a carpenter would be to work with the tools and materials related to these jobs. Building scale models may provide some experience, but using full size materials would create a more vivid picture and a more realistic situation.

With this theory in mind, materials were gathered from local businessmen to construct a full size house section

in the shop.

The students were introduced to the construction industry and the concept of career clusters. This was followed by a short research assignment ("Career Information") involving the Occupational Outlook Handbook, and other career information guides.

A very detailed model of a two-story frame residence was quite helpful in pointing out the various parts of a house, techniques of construction, and how the work of many people come together as one finished product. With this brief introduction, the students began the preparation work for building a house section.

Several activities were involved to emphasis the careers in construction. Some of the more interesting and

successful activities are briefly described.

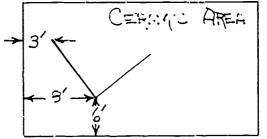
Activities

An activity in Surveying

The students were provided with a map outlining the ceramic's area floor in the shop. In this area they were to locate a right angle with 5' legs which would position the foundation wall.

No equipment was provided, except for chalk. The students were at first confused, but soon found some tools they could use and within twenty minutes had the house outlined on the floor.

This activity sparked enthusiasm into all of the



class members. This was the first working experience of the three day old program, and the unit was off to a good start.

An activity in Masonry

The class was shown how to measure ingredients and mix a wheelbarrow of mortar (sand and lime). They made the mix, carried concrete blocks from a storage pile to the "job site" and began to lay a foundation wall. Blocks were cut to



length and anchor bolts set in the two course wall.

This was the first time some of these seventh graders had lifted a full size block and used mortar. The wall provided a good exposure to the physical work and craftmanship of a mason.

Guest Speaker- The job of an Excavator

To vary the teaching method, and to introduce another construction job, the owner of a local excavation firm spoke to the class about his career.

Included in this talk was a description of the job of the excavator, and some of the tools he uses. A transit was set up and shots were taken on the foundation wall that the students had laid.

They were pleased to discover only 1/4" of variation

in the three corners.

An activity in Framing Wall Sections

The students were given drawings of a floor frame and two wall sections, one including a door opening, the other a window opening. In groups of five they worked on measuring, cutting, framing and sheathing the sections of a house. Upon completion, the house was erected and although a bit shaky these two full size walls and foundation had provided fifteen students with an experience in construction.

Career Information

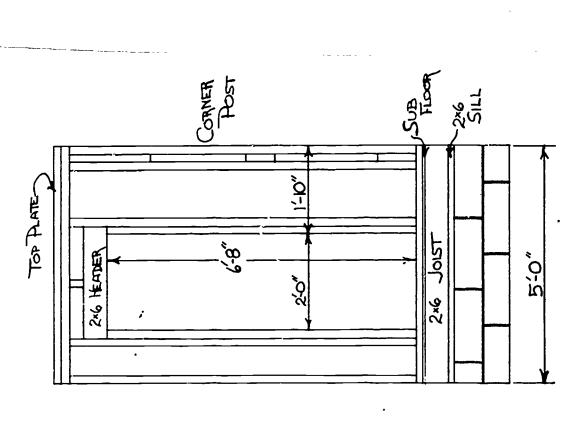
Directions

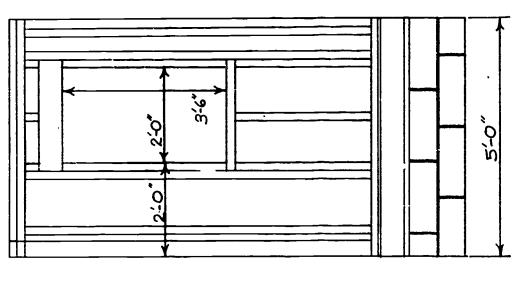
Look up an occupation of you. choosing and answer the following questions about it.

- What duties are performed in this occupation? 1.
- What are the working conditions in this job? 2. (noise, dangers, etc.)
- 3. List any special training needed to perform this job. (school, apprenticeship, etc.)
 What is the average salary in this trade?
- 4.
- How many people are employed in this line of work?
- What are the future prospects for employment in this career?
- Where are most of these jobs located? 7. (cities, country, offices, factories, etc.)
- Where did you find your information? 8.
- List any additional information you can find about the 9. occupation.









1/2"= 1-0"

Careers in Manufacturing

Introduction

By the use of a mini unit of manufacturing in industrial arts, career education was related to mass production. The importance of individuals performing industrially oriented jobs was stressed rather than the operations they performed.

The class was involved in the production of twenty "Do Nothing Machines", a small item that includes many of the basic operations a seventh grader should learn. The unit involved one class of fifteen students and was completed in five class periods.

Objectives

By the end of this unit the students will:

- be able to demonstrate the use of a drilling fixture and a cut off jig. Write the distinction between a jig and a fixture.
- 2. be able to choose the five departments of industry from a list of eight titles.
- 3. write a description, one sentence in length, of the duties of each department.
- 4. use the jigs and fixtures provided to complete a mass production run of twenty "Do Nothing Machines" in five class periods.

Procedure

A list of jobs related to the production of the "Do .Nothing Machine" was made by the instructor. The students were assigned a job and provided with the jigs, fixtures and materials necessary to complete the operation.

Job for mass production run of the "Do Nothing Machine"

<u>Operation</u>	Machine	<u>Tool</u>
Cut bases Route edge Drill dowel holes Drill shaft hole	Radial arm saw Router Drill press Drill press	Stop Shaper table Fixture Fixture
Cut top Drill dowel holes Drill shaft holes	Radial arm saw Drill press Drill press	Stop Fixture Fixture



Operation Machine Too1 Jig saw Jig Cut dowels Jig Cut spacers Band saw Fixture Drill spacers Drill press Fixture Cut wire Bend shaft Jig Fixture Cut fish line Tie snap swivel Tie sinker

Sand Stain Finish Assemble

Evaluation and Recommendations

This mini unit was a quick exposure to mass production but provided enough experience for some students to make career related decisions. A small number expressed dissatisfaction with the repetitiveness of their jobs.

satisfaction with the repetitiveness of their jobs.

A longer production run, involving the design and construction of jigs and fixtures, student advertising, stock sales and marketing was the program of another group of fifteen students.

Because of the lack of experience in mass production methods these students faced many problems, particularily

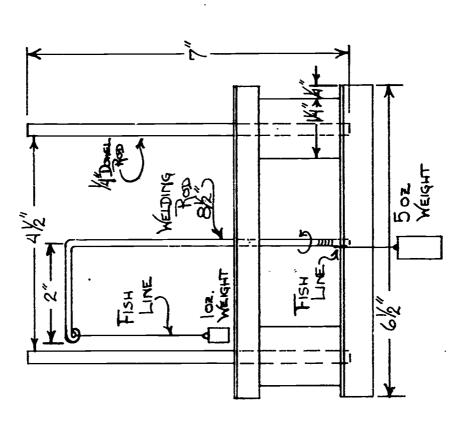
in the research and development stage.

Based on the results of both groups, a guide to consider when planning a mass production unit for career education would be, not to exceed a two week time limit. A program involving more time may begin to deviate from a career education unit to a unit in mass production.

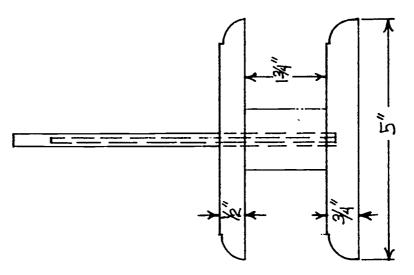


ERIC"-

		MATERIALS
_	62×5×34	PINE
 _	6.8×5× 16	PINE
7	1/4×1/4×1/3/	PINE
8	7 × KDIA.	DOMEL APD
_	8/2× 1801a.	MELDING HOD
	OZ.	SINHER
_	50z.	SINHER



70



DO NOTHING MACHINE

1= %

Manufacturing - Candle Sconce

Introduction

Through the use of a manufacturing unit, career education was related to many mass production occupations.

The students in two seventh grade woodworking classes were involved in the production of one hundred wall candle sconces.

Objectives

As a result of this activity the student will be able to:

- describe different types of businesses and the differences between a jig and fixture.
- 2. gain an awareness of occupations through simulated job situations.
- gain a sense of responsibility and group spirit.

Procedure and Content

- Wood blanks were cut and jigs and fixtures were 1. made by the instructor.
- 2. Lessons were given on the history of manufacturing and the free enterprise system.
- 3. Students were then assigned jobs to perform.
- 4. Each student was given a demonstration covering his job.
- 5. Production
 - a) layout
 - b) part production

 - c) sanding d) assembly assembly
 - finishing e)

Evaluation and Recommendations

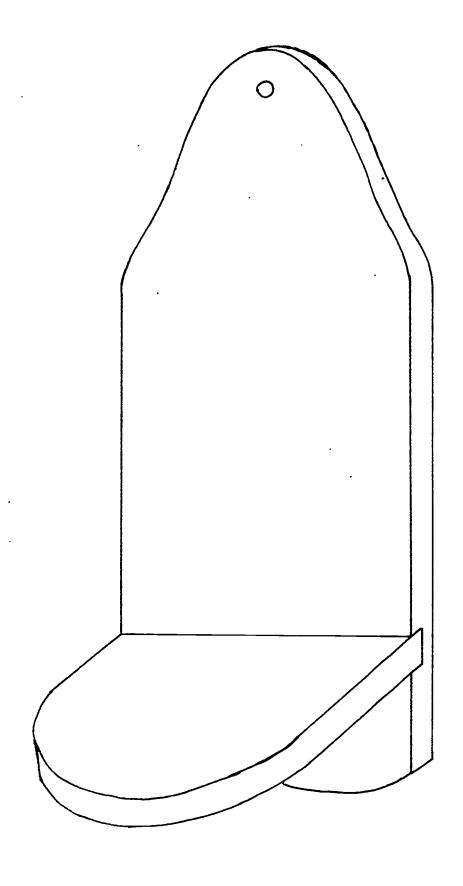
This unit was generally well accepted by the students. They were excited by the activities and enjoyed it.

Originally planned to be completed in one week, various production problems caused a several day delay. To help guard against similar delays be sure to thoroughly test each jig and fixture.

Supportive Material

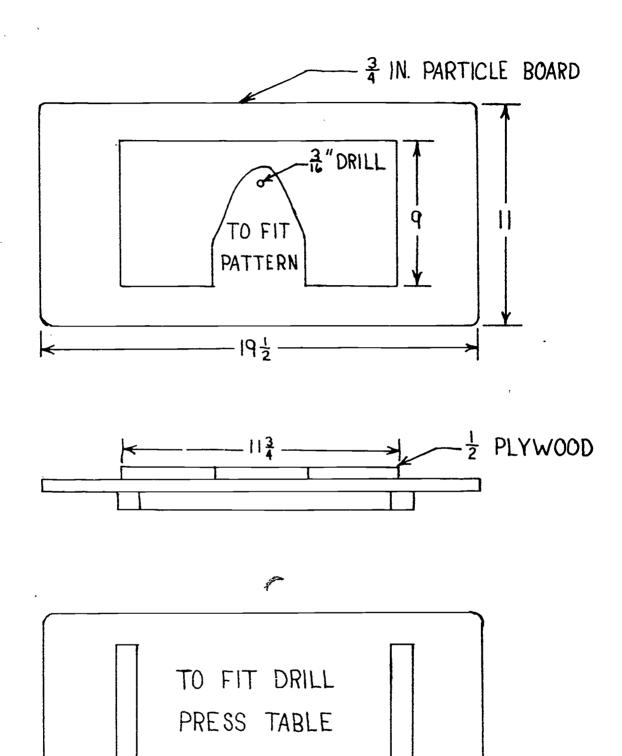
1. Job assignment chart and production chart

WALL SCONCE





DRILLING JIG ~ DRILL PRESS





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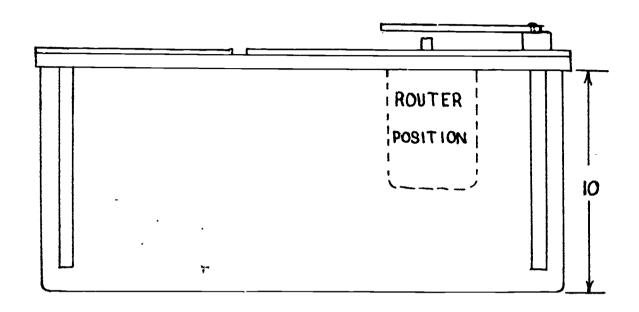
PINE STRIPS

ROUTER JIG

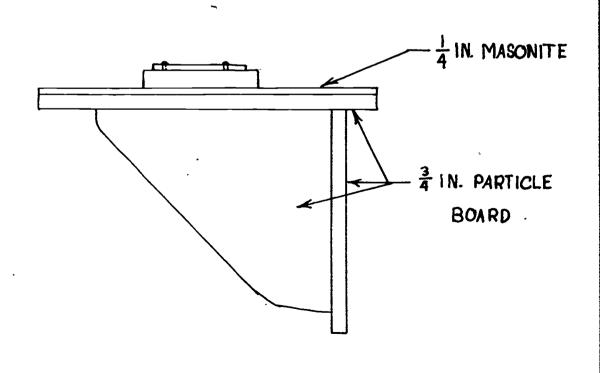


ROUTER JIG ~ (CON'T)

PRONT

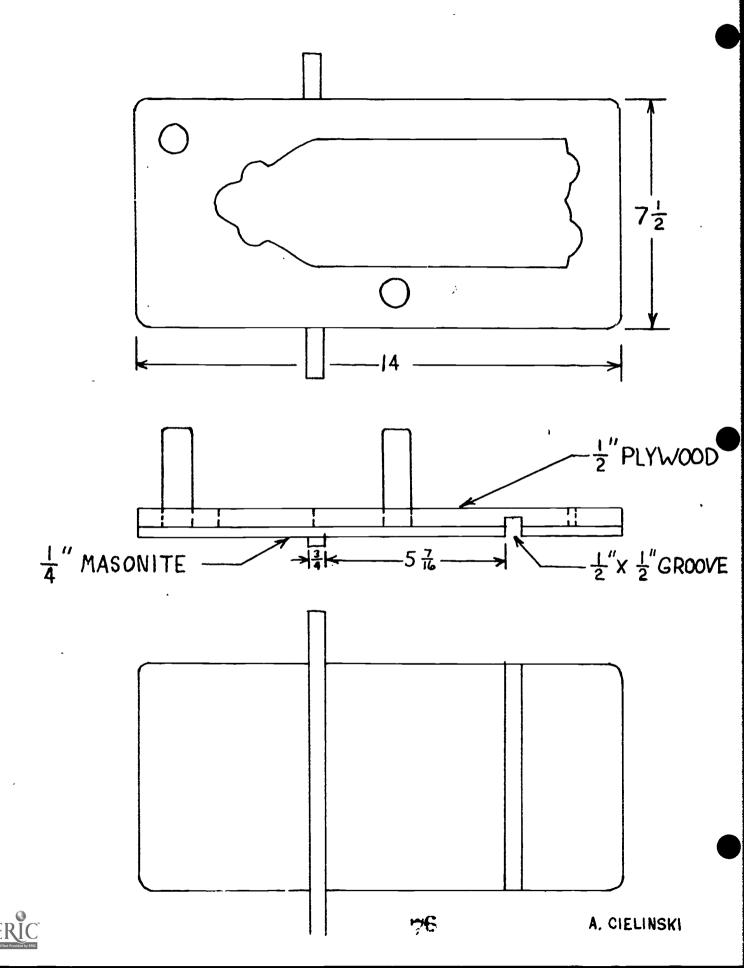


SIDE

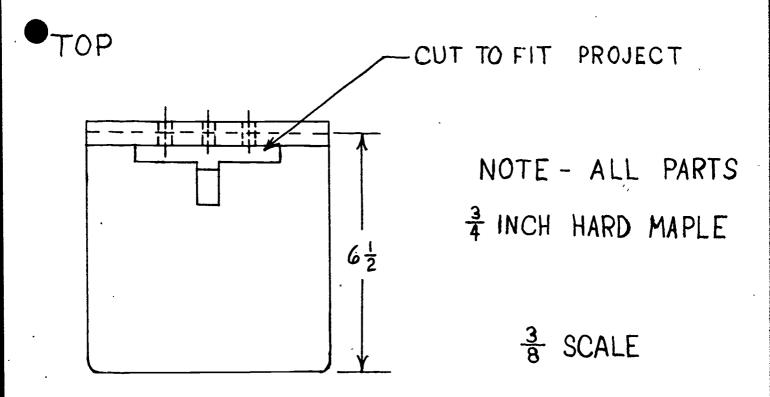


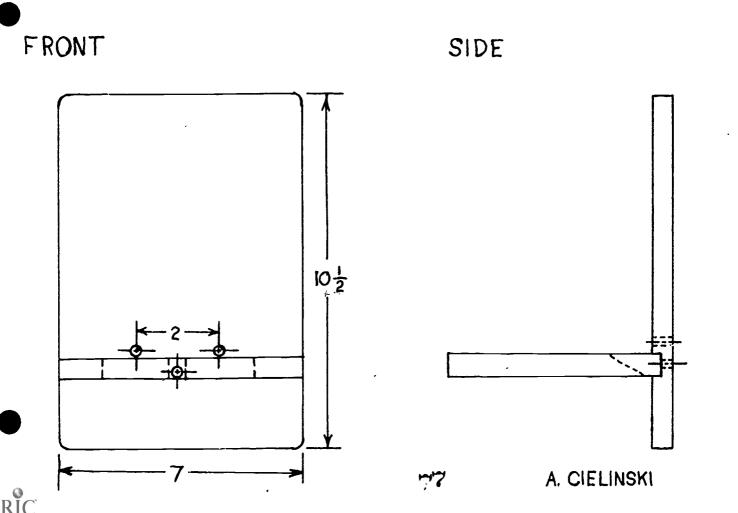


ROUTER JIG

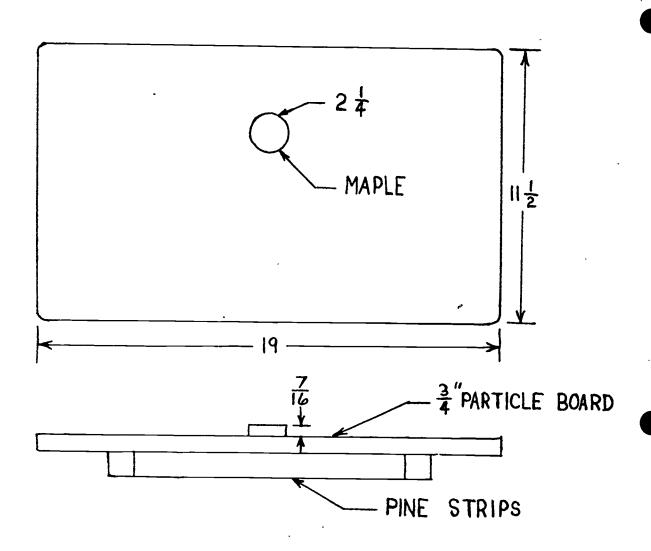


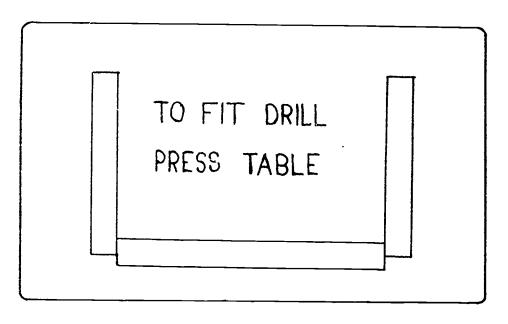
ASSEMBLY JIG





SANDING JIG ~ DRILL PRESS

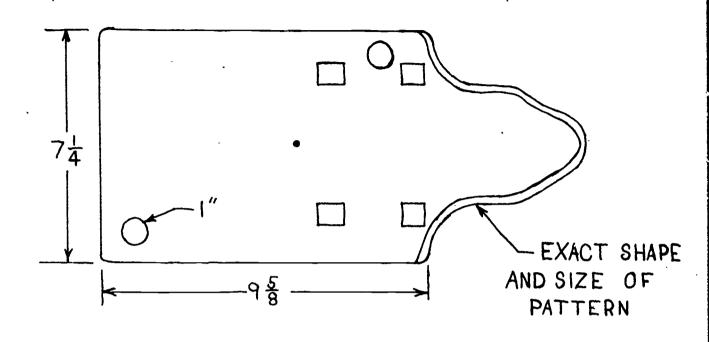


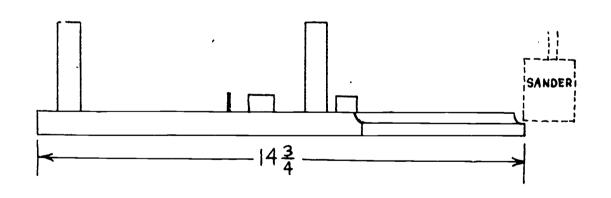




A. CIELINSKI

SANDING JIG ~ DRILL PRESS





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A. CIELINSKI



Guest Speaker

Introduction

To introduce the students to related occupations in the service industry, specifically those of Niagara Mohawk.

Objectives

The student will be able to:

- 1. Identify specific qualifications needed to work in the public service occupations.
- 2. Restate the duties to a job of this type

Procedure

The speaker made aware to the students the many different occupations, by the use of a slide show and an explanation and completed with a question and answer period.

Content

- 1. speaker
- 2. slide show
- 3. question and answer period

Evaluation and Recommendation

The speaker had much influence over the students. By the use of a guest speaker, it was felt that it was an effective way to motivate students.

Supportive Materials

- 1. Pamphlets, or other handout materials brought by speaker
- 2. D.O.T. occupational pamphlets
- 3. Video tape speaker for those absent from class or for use in other classes



Role Playing Interviews Using the Video Tape Recorder

Introduction

This activity was designed to give the students an awareness of different types of jobs.

Objectives

The students will become aware of different types of jobs by:

- 1. indentifying the characteristics of a job in general.
- 2. researching a selected job.

Procedure

- 1. Students list and discuss job characteristics
- 2. Students decide on which characteristics to use as a basis for interview questions
- 3. Students research their selected job using the criteria decided on
- 4. Students prepare questions for interviewer to use
- 5. Video tape recorder is set up and students interview each other
- 6. After recording, the tape is replayed for observation and discussion

Content

Questions prepared for interviewer

- 1. What is your name?
- 2. What is your occupation?
- 3. What is the nature of your work?
- 4. What qualifications and training do you possess for this job?
- 5. Are there any benefits to this job?
- 6. Why do you like your work?



Evaluation

This activity was interesting to the students and it accomplished its objectives. They were motivated through their active participation in the interviews. The interview provided information about different types of jobs and reinforced the characteristics that make up a job. After the interviews were recorded on video tape, they played back the tape with interruptions for questions and discussion. The students did not lose their interest because they wanted to see each other on television.



Career Crossword Puzzle

Introduction

This activity was designed to expose the students to different job titles.

Objectives |

The students will be aware of different job titles

- 1. learn titles unfamiliar to them.
- 2. know the nature of the work involved.

Procedure

- 1. Student's complete crossword puzzle at home.
- 2. Discuss puzzle in class.

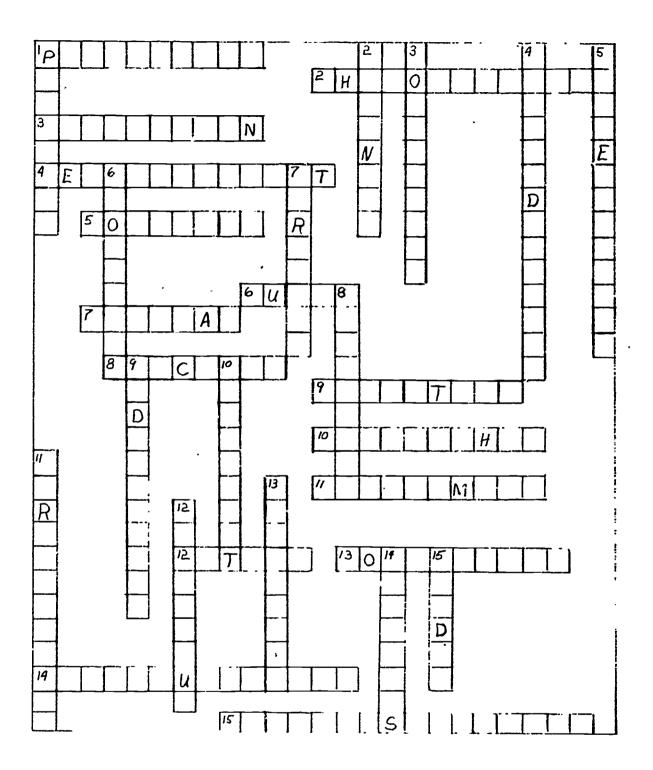
Content

- 1. Crossword puzzle
- 2. Possible answer list

Evaluation

Students enjoyed doing crossword puzzles. This type of activity is generally accepted by the students and it exposes them to information at the same time. It may be just as effective if done as a class activity. This would prevent problems caused by students leaving puzzles at home.







ACROSS

- 1. devises programs for computers
- 2. produces halftone plates for printing
- 3. inspects and services equipment
- 4. forecasts weather
- 5. manages and develops and protects forest land
- 6. selects merchandise to be sold in a store
- 7. installs telephone lines
- 8. constructs, repairs and maintains railroad tracks
- 9. plans meals and prepares food
- 10. handles the communications and routes trains
- 11. grows, breeds, and improves field crops
- 12. involved in any of the arts
- 13. creates slogans and text for selling a product
- 14. develops new kinds of flowers
- 15. gives anesthetics during surgery

DOWN

- 1. operates printing press
- 2. studies plant life
- 3. transmits messages to aircraft
- 4. designs art for cloth
- 5. operates movie projector
- 6. is concerned with relationship between organisms and their environment
- 7. provides measurements of construction sites
- 8. checks items received against the shipping invoice
- 9. x-rays patients
- 10. makes or works on machines
- 11. makes maps
- 12. drives a car for someone else
- 13. applies plaster to walls
- 14. installs pipe systems
- 15. fuses metal together

possible answers

meteorologist
forester
botanist
ecologist
pharmacist
radiologist
aental hygienist
anesthesiologist
cartographer
cosmetologist
chauffeur
artist

photoengraver
pressman
lineman
plumber
iron worker
plasterer
surveyor
horticulturist
agronomist
programmer
projectionist
controller

dietician
fabric designer
machinist
millwrights
welder
trackman
flight engineer
receiving clerk
buyer
serviceman
copywriter



85

What's My Career

Introduction

The ideal class activity would necessarily be an enjoyable one for students. The following activity has had such an impact, and has served as a good initial, or beginning, activity in career education. The student competition and video tape recording added to the enjoyment and learning of both student and teacher.

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Objectives

After completing this activit; the students will have an insight into the many different types of careers. Through the questions asked, the students will realize some of the important factors to consider in choosing a career for the selves.

The student will be able to:

- 1. identify several occupations.
- 2. recognize significant aspects of employment (pay, working conditions, fringe benefits, etc.).
- 3. recognize aspects of careers that should be considered before seeking employment (interests, ambitions, education, etc.).

Content

Student motivation is of paramount importance when effective learning is to take place. It is this precept that laid the foundation for the classroom activity "What's My Career". For example, the winning team might be excluded from clean-up in a shop class for a week. Another type of motivation was to video tape portions of the activity. Clearly, both positive and negative forms of reinforcement were in evidence.

Students were given an occupational survey sheet (included). Each student completed the form accouding to his own interests, or he may have interviewed someone and had them complete the form. Students in panels of four competed against each other to guess the occupation of one student "guest" who was chosen at random. The "guest" selected one of the survey sheets for his occupation. Only questions with a yes or no response were asked. Every time a question was answered yes, the panel asking that question was allowed to ask again, until a no answer was elicited. Then, the other panel was allowed to question in the same



90

manner. Each panel member was given a sheet of general questions to act as a guide while examining the "guest". The time period consumed was twenty minutes to forty minutes each day for three days. A round of semi-finalists and finalists were used to stumulate student competition.

Evaluation

Upon termination of the activity, each student was asked to complete an evaluation of the "What's My Career" activity (sample evaluation included). 89% of the students responded favorably to the game as a class activity. When asked if they felt they learned something from the game, 89% responded positively. The answers to the above two questions would seem to indicate some value in the inclusion of such an activity in a career education program.

The game was not faultless, however. 33% of the student group felt that the activity consumed too much project time. Such a negative reaction might be overcome by timing the activity between student projects or areas of study.

Supportive Material

The following examples of materials can be used in conjunction with the "What's My Career" activity.



Period	Name	
	Date	•

Occupation Information

- 1. What is the name or title of the job?
- 2. List at least four job responsibilities.
- 3. Is the job paid by a salary or by wages?
- 4. What is the product being manufactured, if any?
- 5. How much schooling or education is necessary?
- 6. Are there opportunities for travel?
- 7. What kinds of equipment must be operated?
- 8. Does this job have daylight or night hours?
- 9. How many hours each week are worked?
- 10. Is this job part-time or full-time work?
- 11. Are holidays and/or vacation days paid?
- 12. What are three personality characteristics that are important for this job?
- 13. Would a person with this job belong to a union?



Occupational Survey

- 1. Job title:
- 2. What does this person do?
- 3. What type of educational background must be have?
- 4. What type of skills are necessary?
- 5. What is the approximate salary bracket?
- 6. What type of hours does he work?
- 7. What benefits or extras are there?
- 8. Where does this person work?
- 9. What are some related jobs?
- 10. What should a beginner in this field do?
- 11. Comments or related information:



What's My Career Questionnaire

Directions

All questions must be answered with a yes or no answer.

- 1. Do you work with people? things?
- 2. Do you have your own business?
- 3. Do you work outside? in a factory? in an office?
- 4. Do you belong to a union?
- 5. Are you an executive?
- 6. Were you an apprentice?
- 7. Did you have to go to college? trade school?
- 8. Does your job involve any danger?
- 9. Is there a lot of physical activity?
- 10. Is your job in the field of Agriculture

Transportation

Construction

Communication

Science

Health

Personal Service

Business & Office

- 11. Do you feel this is a high paying job?
- 12. Do you work the same hours all the time?

Evaluation of "What's My Career"

- 1. Did you enjoy the "What's My Career" game?
- 2. Why, or why not?
- 3. Did you learn anything about careers from the game?
- 4. What did you learn?
- 5. What are some things about the game that you didn't like?
- 6. Was it a good idea to use the video tape equipment?
- 7. Why, or why not?
- 8. Would you like to play a game like this again?



Follow-up of Alumni

Introduction

Many students have only vague and limited knowledge of the employment opportunities which they may expect to find when they are ready to look for a job. This activity is one way of broadening student knowledge of employment while giving some interesting specifics about different career employment. In addition it was a different approach to learning.

Objectives

The student will be able to:

1. Through the use of the follow-up study, give students a more realistic picture of their future by helping them to find out what has happened to those who have preceded them.

2. Reconstruct vague and limited knowledge of the employment opportunities, as a result their plans are vague, unrealistic and restricted to a few familar occupations.

Procedure & Content

A. Preparing the Questions

- 1. students suggest questions, write them on board (students own words)
- 2. have students think about what they know and formulate a question.
- 3. number each question, stop when enough, and have students pick five important ones.
- 4. announce teacher's right to edit question selections
- 5. ask how many pick number 1, as a student raises his hand have a student count and another write total on the board. (repeat for each question, each student can raise his hand five times)
- 6. tabulate, announce five most popular, teacher add questions
- 7. announce that questions will be incorporated into a letter and sent to last year's graduates and dropouts.
- 8. place names and addresses on eparate cards.



- B. Preparing the letter
 - 1. draft letter including students' questions
 - 2. introduction, body, closing
- C. Mailing the letter
 - 1. duplicate letters
 - 2. type cards containing former students' names and addresses
 - 3. inspect material to be mailed
 - 4. mail from school
- D. Discussing the replies
 - 1. distribute replies to class, letting them open letters
 - 2. have students read locters out loud
 - 3. discuss the letters
 - 4. draw comments from class
 - 5. contribute additional comments

Recommendations

This alumni plan incorporated two medias, parcel and telephone. We planned on equal feed back which was going to be used during the discussion period. The results using the telephone were poor. Two interviews cut of eighteen were handed in for discussion. It was felt that the telephone method would not be used again unless a larger number of phone callers were used.



SUGGESTED ACTIVITIES FOR CAREER EDUCATION

- 1. Utilize all forms of audio-visual aids and communications media:
 - a. Charts depicting occupational information in different fields
 - b. News stories for school and local papers
 - c. Library displays
 - d. Bulletin boards
 - e. Posters (possible poster contest)
 - f. Film strips
 - g. Motion picture films
 - h. Overheads and transparencies
 - i. Slide-tape shows
- 2. Stimulate student research by:
 - a. Corresponding with people successful in a chosen field
 - b. Researching great men in a vocational field
 - c. Interviewing parents for an occupational report
 - d. Studying an occupation
 - e. Compiling a notebook
 - f. Researching various types of training and educational opportunities
 - g. Reading trade and professional purnals
 - h. Studying community job opportunities
- 3. Stimulate teacher cooperation in other subject areas



- 4. Use guest speakers:
 - a. Community organizations, companies, etc.
 - b. School personnel
 - c. Past graduates and upperclassmen
- 5. Role play various occupations with the tools of the trade
- 6. Run a mass production simulation relating the jobs to industry
- 7. Supervise student visitations to:
 - a. Industry
 - b. Trade schools
 - c. Colleges and universities
 - d. Science and hobby fairs
- 8 Analyze newspaper ads for discussion
- 9. Conduct open classroom discussions concerning careers
- 10. Use games to stimulate interest in career education
- 11. Prepare assembly programs
- 12. Organize a club to:
 - a. Discuss vocations
 - b. Encourage hobbies and skills
 - c. Prepare class news releases
- 13. Arrange for student interest surveys
- 14. Periodic newsle ters for students and parents
- 15. Sponsor radio and television programs with student and teacher participation

- 16. Arrange for extra-curricular activities to simulate actual job conditions
- 17. Have students inventory their own skills and interests
- 18. Arrange for attendence at:
 - a. Conferences concerned with occupational information
 - b. Vocational clinics
 - c. Technical demonstrations
 - d. Business meetings
 - e. Community meetings (town council, etc.)
- 20. Assist students in becoming familiar with various professional services for career information and placement
- 21. Keep current with occupational trends and vocational information:
 - a. Filmstrips
 - b. Periodicals
 - c. Trade journals
 - d. "Occupational Outlook Handbook"



Career Education Pre-Test

Introduction

This activity was designed to test the students knowledge of related career information. The activity also enabled the instructor to modify his program to match the students' levels of competancy.

Objectives

The student will become aware of related career information.

The student will be able to assess their level of achievement in career education.

Procedure

The test should be administered in class.
Students can be told that the test will not be counted as a part of their grade.

After the test is corrected it should be returned and discussed with the class.

Content

Career Education Pre-Test

Evaluation

This activity was helpful in establishing a basis for the lessons needed to initiate a program in career education. Students also became aware of related career information.



Career Education Pre-Test

1.	I plan to choose my career
	 before I enter high school now after high school during military service during high school
2.	I will probably change my occupation times.
	1. 0 2. 1 3. 3 4. 6
3.	The average income for a family of four in the U.S. today is approximately
	1. \$3,000 2. \$6,000 3. \$10,000 4. \$36,000
4.	When we consider our yearly earnings, the amount stated is taxes.
	 before after
5.	Taxes usually take about of our stated salary.
	1. none 2. 10% 3. 40% 4. 80%
6.	It is important for everyone to go to college to become a success.
	1. true
	2. false



7.	Circle each occupation that is related to the medical profession.
	 x-ray technician ambulance attendant physical therapist safety engineer
8.	List three careers found in industry other than production worker.
	1. 2. 3.
9.	List five careers related to the food industry other than cook.
	1. 2.
	3.
	4. 5.
10.	If your career choice was related to nutrition, planning meals for a large group of people daily, you might be considered a
11.	The hobbies I am most interested in are
	1.
	3.
	4.
12.	If I could spend half of each school day working in any occupation I would choose
13.	I chose this occupation because (refer to question 12)
14.	The person I would like to follow as an example is His or her occupation is

	2. 3.
16.	When selecting a career, it is very important to organize your thoughts and goals. Please list five goals that would be important to you in making your career choice.
	1. 2. 3. 4. 5.
17.	The occupation a person selects will relate to his desired life style.
	1. true 2. false
18.	If you do not like to do research work and read, you probably would not select a career as a lawyer.
	1. true 2. false
19.	As you may know, a draftsman works with drawings and plans. List at least three occupations which would be related to his type of work.
	1. 2. 3.
	02

15. List in order of importance the following areas when choosing a career (number 1 being the most important).

a. enjoyable family lifeb. enjoyable jobc. large salary

Woo	odshop	Name	
Period 1			9, 1974
Dir	rections: Read each ques	stion carefully and	nd make the response
1.	A "Career Cluster" is r	nany	jobs.
2.	List 4 jobs which could be a career cluster dealing with the construction industry.		
3.	a. b. c. d.		•
3.	Pick one of the jobs you that person do?	ou listed in quest	ion 2. What would
4.	What kind of training of job?	or education would	be needed for this
5.	Listed below are some purite the name of the p	parts of a house.	Next to each letter drawing.
		top plate	sole plate
		stud	header
	l ← B	footing	foundation
		joist	rafter
		sill	bridging
	C C	Α.	Ε.
	$E \longrightarrow D$	В.	
	F	c	G
•	G ~>	D.	н.

6. What is the job of an excavator?

Here is a list of some tools used by an excavator. Pick 2 and tell what they are used for. transit level plumb bob foundation plan back hoe 100' tape 8. The people who are bosses of a company are called _____ (labor or management) 9. Labor and management sometimes have .trouble settling a contract. What is one area that they often disagree about? The state laws require any person under 16 years old to have working papers before he can hold a job. What is the 10. purpose of this law? 11. Working papers are a legal document, so everything written on them must be 12. Many special tools are used by industry. Jigs and fixtures are the most common. A device that guides a cutter through the stock is a _____ (jig or fixture)? 13. People in industry who design the jigs and fixtures would be in the department of A) production B) marketing C) research & development D) personnel 14. When an industry wants to make thousands of identical products they do not rely on a craftman's skill. They can control the work so that each product will be exactly the same. This method is called, (mass production, hand crafting, importing, carpentry). 15. The people employed in Personnel Administration are responsible for A) hiring workers for the company B)selling finished products C) buying raw materials 16. As far as job opportunities for the future are concerned, the ceramic industry is _____ (growing, dying). 17. A very improtant, highly skilled worker in the ceramic industry is the A) excavator B) patternmaker () slip caster. 18. Molds for use in slip casting are made of (plaster of paris, deflocculant, clay, wood, metal).

EVALUATION OF STUDENT ACHIEVEMENT AND PROGRESS IN INDUSTRIAL ARTS CAREER EDUCATION

Student name

Grade/Section

Evaluations are made in terms of what might be expected normally of a student of similar age and grade placement. O-Outstanding, S-Satisfactory, N-Needs to make improvement, PN-Has made progress but needs to make further improvements, U-Unsatisfactory.

Evaluation by Student Teacher

Objectives

- He directs his individual activities effectively, makes good use of time, and requires a minimum amount of supervision.
- 2. He intelligently follows plans and directions, listens and reads directions carefully, and follows and completes plans and directions which have been set up.
- 3. He gets along well with other students, is considerate of rights of others and is courteous and tolerant.
- 4. He takes an active part in class, participates in group planning, volunteers his services, and does his share in group activities.
- 5. He takes good care of personal and school materials and equipment, shows respect for property and doesn't waste materials or subject equipment to unnecessary wear, and takes an active and willing part in shop clean-up.
- 6. He develops an understanding of those careers in the construction industry discussed and experienced in class through his cooperation and participation in class room activities.



- 7. He develops desirable social relationships, takes part in and cooperates with other students on group construction projects and gives help willingly to others.
- 8. He develops safe working habits, uses tools and machines safely, gives attention to the safety of others and reports unsafe equipment and practices to the instructor.
- 9. He develops a certain amount of skill, performs tool processes accurately and develops pride in his work and craftsmanship.
- 10. He explores the careers around him by using the media discussed in class effectively (listening, speaking, writing, and reading).



	Name Period
1.	Explain what a career means to you?
2.	List five pieces of information asked of you on a job application?
	a. b. c. d. e.
3.	What kinds of questions might be asked of you at a job interview? (list five)
	a. b. c. d. e.
4.	Waht are some of the most important facts to know about a job before you apply?
	a. b. c. d. e.
5.	Describe your job and explain why you would or would not like it for a career?
6.	Did you enjoy making the product? Why?



CA	REER	NAME	

Name	
Due	

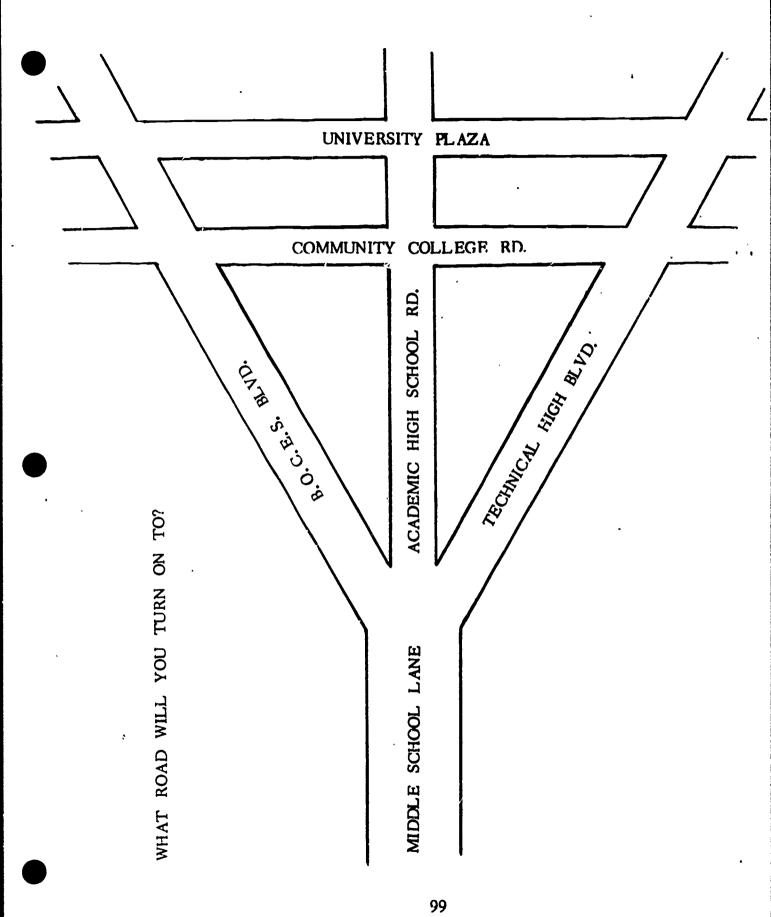
CAREER BEPORT

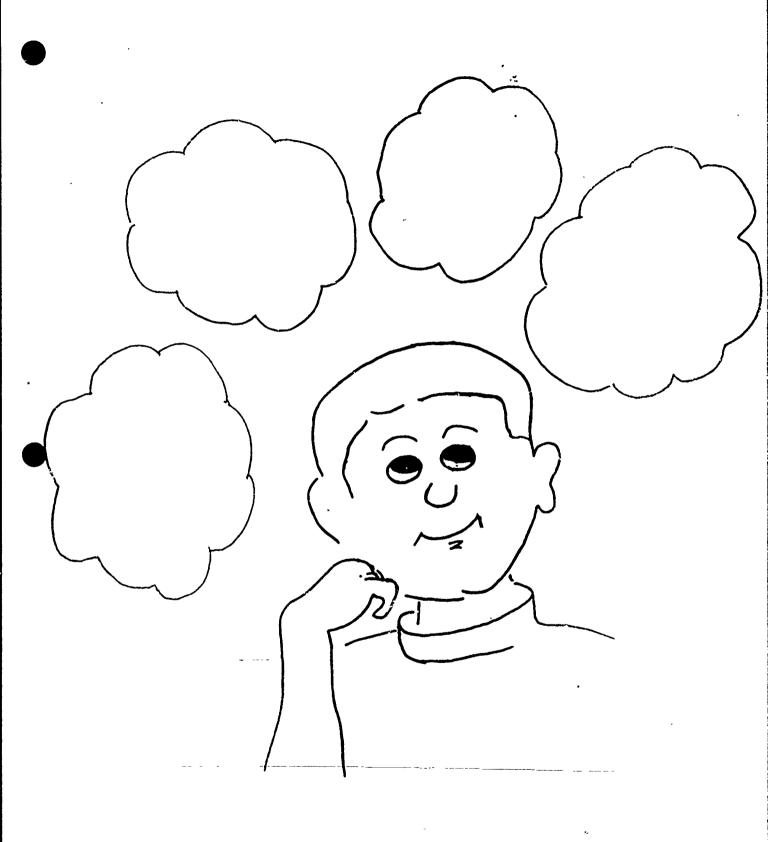
Sources:

Career books Library books Interviews Occupational Outlook Handbook Film strips Newspapers

Choose a career of your choice and answer the following questions about the career. The above sources will be of great help. The Occupational Outlook Handbook is a very good source.

- 1. Describe what kind of work you would like to do?
- 2. Where would you be employed and by whom?
- 3. How much would salary or wages be?
- 4. What kind of working conditions would you be working under?
- 5. What lines of training or apprenticeship program would you have to prohibing?





108 101



ABILITIES-

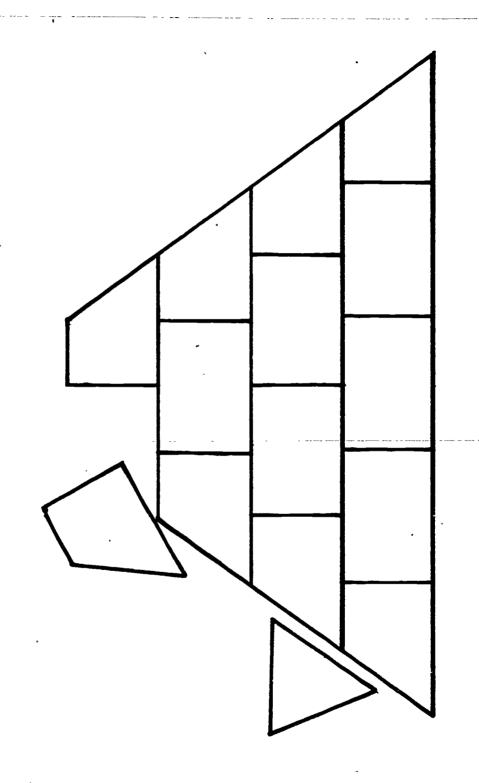
INTERESTS

CAREER INFORMATION

SCHOOL PREPARATION

Note: We suggest using the transparency with four overlays, one for each of the above terms. The production of these overlays can be accomplished by covering all unwanted material on this page, and producing an intermediate copy (e.g. Xerox), then producing transparencies from this copy.

CAREER PYRAMID



1105

PROJECT PROPERTY

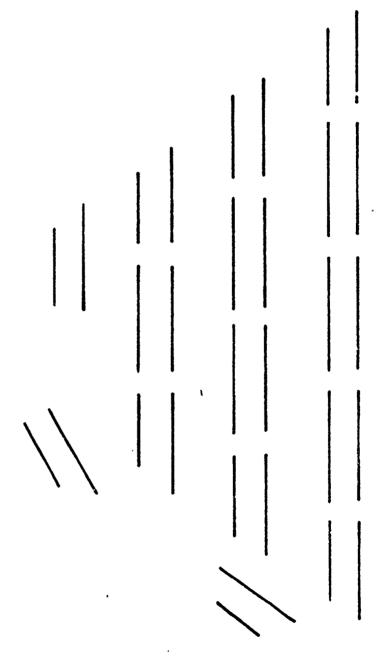
ARCHITECT

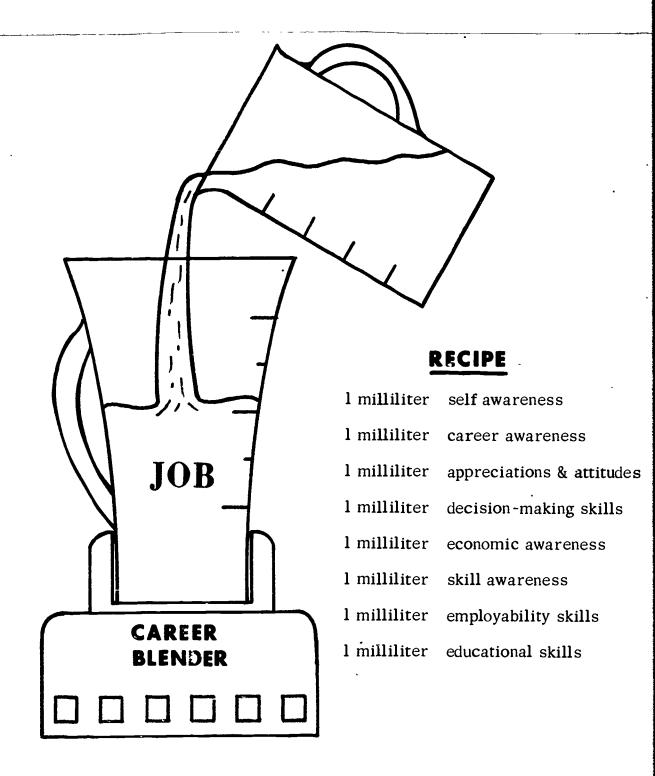
Supervise

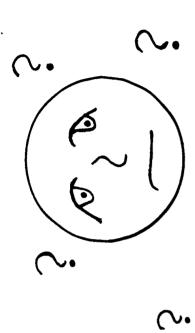
COLLEGE EXPERIENCE CONSTRUCTION

& LOGICALLY PERSONALITY PLEASANT WORK RAPIDLY MECHANICAL HIGH SCHOOL DRAWING SENIOR halmo

MATH & Sci. Good in CREATIVE DESIGN COMMUNICATION Q009 HIGH SCHOOL LUNIOR ELEMENTARY School Note: This is a position guide for making additional overlays so that the pyramid can be used with other occupations.







Hm... WHAT SHOULD I KNOW BEFORE LOOKING FOR A JOB??

AWARENESS

INTERESTS SKILLS ABILITIES SELF IMAGE VALUES ATTITUDES ≻ ∑

GREAT ! NOW THAT I KNOW WHAT I'M LIKE, WHAT JOB SHOULD I CHOOSE ??

116

117

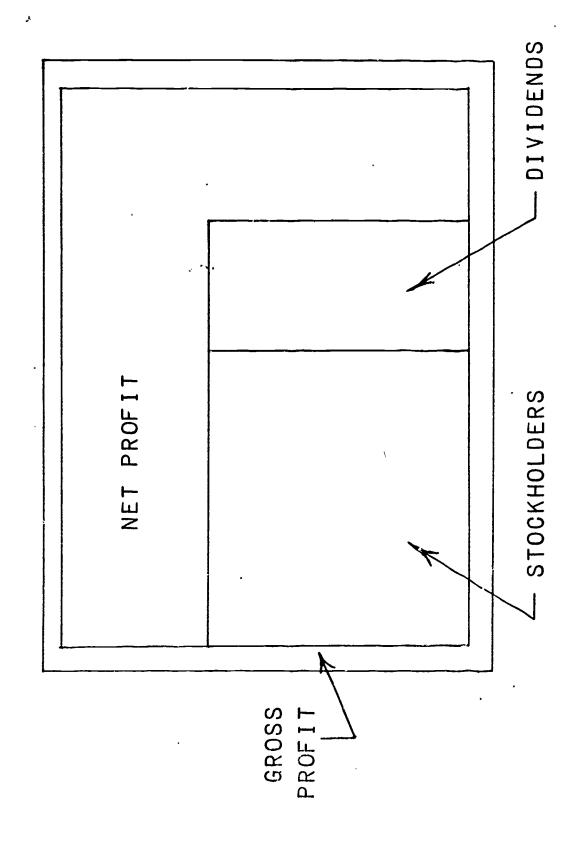
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AWARENESS JOB

BENEF I TS PAY HOURS FRINGE TRAVEL BOSS WORKER

SKILLS

HOW PROFITS ARE DIVIDED



Public Relations

Since the schools are supported by public funds, the community has an interest in the educational programs being developed at their schools. It is imperative to the success of a program that the community be aware of and support it. Therefore, a public relations program should be established which would provide an exchange of information between the school and community.

The intent of career education is to help the student develop a basis from which he can make an intelligent career choice. An important source of information to the student is the community itself, of which the student will some day become a working member. A good public relations program may encourage both individuals and local businesses to provide first hand knowledge of their work. This kind of activity not only informs the public but gives them the chance to become a part of the educational process.

A good public relations program consists of a variety of different activities. Ten common methods used include:

- 1. exhibits and project fairs
- 2. open houses
- 3. talks to service organizations
- 4. newspapers
- 5. school assemblies
- 6. school publications
- 7. display cases
- 8. radio and television programs
- 9. adult classes
- 10. community service

A teacher should consider those activities that he feels will give his program the most significant exposure.

The participants of the career education pilot program contacted local newspapers as a means of informing the public. Most newspapers are willing to print articles about school activities especially if photographs are used.

Below is an outline of the procedure used to prepare a news release. Additional references, such as journalism texts and professional magazine articles, can be consulted if additional information is desired.

News Release

A. Content

- 1. first paragraph: answer the five w's (who, what, where, when, and why). It should be only be a sentence or two in length.
- 2. second paragraph: rationale
- 3. third and successive paragraphs: expand on information
- 4. program benefits to students



5. no longer than two typewritten pages, double-spaced

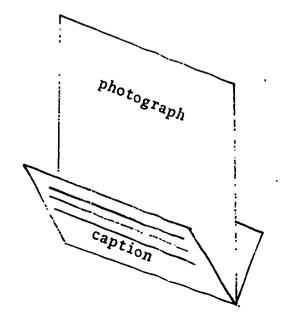
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sec	cond page
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,	- 30 -

С. Photo

- 5x7 or 8x10 black and white glossy polaroid has been used successfully prepare caption fold caption over picture and tape to back



April 22, 1974

Robert Glasser Driver Middle School Marcellus, New York phone: 468-2825

Industrial Arts Career Education Pilot Program

An educational program, centered around career awareness, is being conducted at the Driver Middle School,
Marcellus.

The Driver Middle School is one of six area schools that is cooperating with the State University College at Oswego in the Industrial Arts Career Education Pilot Program.

The program is being implemented in two eighth grade classes by Robert Glasser, a student teacher at the State University College at Oswego, who is working under the supervision of Richard Perry, industrial arts teacher at Driver Middle School.

The program is designed to give the pupils a chance to explore the world of work. Pupils will explore and clarify their needs, values, attitudes, and aspirations. They have formed a company for the manufacture of ecology

(more)_

Industrial Arts Career Education Pilot Program 2-2-2

boxes. The work roles that the pupils assume in the company will increase their understanding of work.

It is often the case that a pupil graduates from high school unaware of possible educational and occupational alternatives open to him. The career education program will provide a base from which the pupil can begin to explore his potentials.

-30-



May 2, 1974

Gregory Black
Bruce Howe
West Genesee Junior High
Camillus, New York
phone: 487-0047

Industrial Arts Career Education Pilot Program

Pupils in five industrial arts classes at West Genesee
Junior High are presently participating in a career education
pilot program. This new program is being developed by student teachers from the Department of Industrial Arts and
Technology at the State University College at Oswego in cooperation with local school districts. Teachers participating from West Genesee Junior High are Mr. Eugene Field
and Mr. William Stessen.

This program seeks to make students aware of many different career clusters. There is no training for a particular occupation, rather the students are encouraged to relate their needs and abilities to the various aspects of a career that may interest them.

Career education is not replacing the industrial arts program, but is being infused through the use of many new activities. (more)

Industrial Arts Career Education Pilot Program 2-2-2

Pupils have been involved in interviewing various people in their occupations. Video tape is also being used to record field trips and various occupational skills. These are just a few of the activities through which pupils become more aware of the world of work.

-30-

May 1, 1974

Gerald L. Burkard Frank Zampariello Grant Junior High School Syracuse, New York

Industrial Arts Career Education Pilot Program

A new Career Education Program has been developed through cooperative efforts by the State University College at Oswego and six area schools.

Known as the Career Education Pilot Program, the experimental program is being field tested by eleven Industrial Arts student teachers to explore the implementation of Career Education in the Industrial Arts Curriculum.

Working with guidance from cooperating teachers at each school, the Oswego student teachers initiated the program at Grant Jr. High School, Roxboro Road Middle School, Marcellus Central School, Pine Grove Middle School, Jamesville-Dewitt Middle School, and West Genesee Junior High School. Supervisor for the program is Dr. Kolan Bisbee, Associate Professor of Industrial Arts and Technology at Oswego.

The student teachers work as independent two-man teams on the project using the Career Education format Dr. Sidney

Industrial Arts Career Education Pilot Program 2-2-2

Marland, former United States Comissioner of Education, championed. This format suggests the introduction of junior high students to career clusters, which are groups of related careers.

The individual student is made aware of how his abilities and interests apply in choosing a career. He is then encouraged to investigate a career and the educational requirements necessary to prepare for that career. In addition to investigating a specific career, the pupil is introduced to related careers which give him an insight into careers he might not have realized existed and could be of interest to him.

The pupils have been involved in library research, investigating careers, developing career displays for bulletin boards, role playing their chosen career in front of their classmates to expose them to other careers, and manufacturing products for sale and investigating career opportunities in the manufacturing world.

(more)



Industrial Arts Career Education Pilot Program 3-3-3

While the pupils are working on their projects, the student teachers point out careers available related to the area they are studying.

An instructional guide will be compiled at the end of the program and made available to the cooperating schools.

-30-

May 2, 1974

Adam Cielinski Joseph Novak Pine Grove Middle School Fremont Road East Syracuse, New York

What's New in Industrial Arts

The pupils in the industrial arts classes at Pine

Grove Middle School are participating in a Career Education

Pilot Program. Mr. Pittner and Mr. McDougal, the cooper
ating industrial arts teachers, and Mr. Cielinski and

Mr. Novak, student teachers from the State University College

at Oswego, are implementing this program.

The students are being exposed to a wide range of occupations through the use of films, slides, displays and lessons. The seventh grade pupils in woodworking classes are involved in manufacturing. They are mass producing candle holders.

-30-





April 1, 1974

Tom Dorgan
John Altman
Jamesville-Dewitt Middle School
Randall Road
Syracuse, New York
phone: 471-1556

Industrial Arts Career Education Pilot Program

The pupils currently enrolled in the industrial arts program at Jamesville-Dewitt Middle School are involved in a career education pilot program. Philip Horan and David Wells are presently working with Tom Dorgan and John Altman, student teachers from the State University of New York College at Oswego, to create and present career activities to the sixth and seventh grade industrial arts students.

The program emphasizes broad career awareness and orientation. In a career education program all young people, both boys and girls, have the opportunity to systematically explore occupational options. They proceed from broad exploratory efforts to in depth experiences with hands-on real life activities in major occupational clusters. The sixth grade pupils are currently involved in a mass production unit which will expose them to various occupations related to industry.

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-30-

ERIC Full Box Provided by ERIC

December 5, 1973

William Keller Michael Carlito Chestnut Hill Middle School Liverpool, New York

Follow-up Alumni

If you are an alumnus of Liverpool High School, there is a good chance that you will be contacted to answer a questionnaire developed by the eighth grade industrial arts pupils of Chestnut Hill Middle School. This is part of an experimental program focusing on career awareness. Through the questionnaire, the pupils hope to develop an awareness of the many different career opportunities available.

This program is being implemented under the guidance of William Keller and Michael Carlito of State University College at Oswego. They are working with George Boni and John Pauldine of Chestnut Hill Middle School.

If you are contacted by telephone or by mail, your cooperation will be appreciated. Pictured are some of the students that are participating in this experimental program.

December 3, 1973

Richard Barczak Fred Fosler Roxboro Road Middle School North Syracuse, New York

Roxboro Road Middle School Pilots Career Education

Roxboro Road Middle School was one out of five schools chosen by the State University College at Oswego to participate in a pilot program on career education.

Richard Barczak and Fred Fowler, student teachers from the State University College at Oswego, worked under the supervision of John Kulesa and Gus Bollenbacher, industrial arts teachers, to develop new curriculum of career education relating to industrial arts education.

Career education has received a high priority among educators, administrators and legislators. In essence, it is a program designed to make education more relevant in preparing and assisting students to become aware of, explore, choose and prepare for a career. Career education is a continuous program integrated into current curriculums, beginning at pre-school and continuing on to all levels of education, even graduate levels.

Among the activities the students participated in were

(more)

Roxboro Road Middle School Pilots Career Education 2-2-2 listening to guest speakers, simulated manufacturing by mass producing a product with emphasis on career role playing, watching career education films, interviewing various people to learn about their occupations and giving oral reports on careers.

One very successful project included a day off from school for the student to spend with his father learning about his occupation. For one student, this meant spending two nights in Binghamton and taking part in a sales transaction.

Although the pilot program at Roxboro Middle School only lasted eight weeks it proved to be a great success. The pupil interest in the career education projects will result in further development of the program.

-30-

December 4, 1973

Michael Taber
Gary Houtz
West Genesee Junior High
Camillus, New York

West Genesee Junior High Participates in a Career Program

West Genesee Junior High School has been selected as one of six upstate schools to participate in a pilot program on careers offered by the State University College at Oswego.

Student teachers Michael Taber and Gary Houtz will be working with Eugene Field and William Stessen to create and present a unit on careers to be offered to the seventh, eighth and ninth grade pupils of industrial arts.

The program emphasizes broad career awareness and orientation. In a career education program, all young people, boys and girls, rich and poor, urban and rural, will have an opportunity to systematically explore occupational options. They proceed from broad exploratory efforts to in depth experience with hands on real life activities in major occupational clusters.

Such experience should contribute to a further under-

(more)



West Gensee Junior High Participates in a Career Program
2-2-2

standing of their occupational interest and the implications of alternative career choices for their life style---in effect, their "non-work" life roles.

This information and these activities are extremely important to students at this early secondary level and West Genesee is grateful to have been selected to begin a program of this nature in its school.

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December 18, 1973

William Van Gee Oswego Middle School Oswego, New York

Industrial Arts Pilot Program In Operation at Middle School

An Industrial Arts Career Education Pilot Program is presently being conducted at the Oswego Middle School.

At Oswego Middle School, two classes of seventh grade pupils are involved in the Career Education Pilot Program with William Van Gee, a student teacher at the State University College at Oswego. He is working under the supervision of Frank Bartello, industrial arts teacher at the middle school. Also involved with the program is Mr. Josegh Larsarski of the middle school English Department.

The program at the middle school is one of five

Career Education Pilot Programs presently being field tested in the Oswego-Syracuse area in cooperation with Dr. Kolan Bisbee, Associate Professor, Department of Industrial Arts and Technology, S.U.C.O.

The course will last for six weeks. It will be concerned with field testing ways by which pupils at the middle school level will become more aware of career opportunities around them.

(more)

Industrial Arts Pilot Program In Operation at Middle School 2-2-2

Pupils at Oswego Middle School will be looking at careers in the construction industry in particular. They have set up a mock construction company in which they have formed for different construction jobs. Each student then works to find out more about his job through research, interviews, and by applying his technical knowledge and skills on an actual construction project in the job for which he applied. fo At the end of the program, each student will report his experiences and findings to the rest of the class. The pilot program is expected to increase the students' awareness of careers in this instance, in the construction field, and to develop their ability, and stimulate interest in finding out more about different career opportunities available to them.

News Release Style Sheet

- 1. Time, date and place should be in that order.
- 2. Use the day of the week, not today, last week etc.
- 3. Only abbreviate or capitalize a person's title when it comes before the person's name. Never abbreviate or capitalize the title when it comes after the name or when it stands alone.
- 4. Use the past and future tense. Avoid the use of the present tense.
- 5. Winners are first, second and third, not 1st, 2nd and 3rd.
- 6. \$2, \$6, not \$2.00, \$6.00
- 7. More than 500. Not over 500 attended.
- 8. Addresses: John Smith of Main Street. John Smith of 35 Main St. Abbreviate when there is a number in the address.
- 9. Ages and statistics are in numerals.
- 10. Addresses are written as N. Main Street, North Syracuse.
- 11. Trains and airplanes are due. Most events occur because of or were caused by.
- 12. Meetings are conducted or sponsored, but not held.
- 13. Smith graduated. Not Smith was graduated.
- 14. Use pick with fruits and vegetables. Otherwise, named, selected, chosen, appointed, etc.
- 15. Any figure higher than 999 use a comma 1,890.
- 16. High School and under pupil not student.
- 17. Names of school courses are not capitalized with such exceptions as English, Spanish, American.
- 18. Most persons are citizens of the United States and residents of Oneida, Oswego, Maple Avenue, etc.
- 19. It is not necessary to repeat the name of the community in the dateline after an address in the story.



- 20. Do not use FROM in giving the hours for an event. Sessions will be 2 to 4 and 7 to 9 p.m.
- 21. Olean RD 4, not RD 4 Olean. Also, no comma between Olean and RD.
- 22. Elected were John Smith, president: John Jones, vice president etc. No colon after were.
- 23. No periods when abbreviating organizations, except U.S., U.S.A., U.N. Thus: BPOE, OES, NORAD, but John Jones, R.N.
- 24. One is a member of a club. One does not belong to a club.



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- 8. Publicity Handbook, The Sperry & Hutchonson Co., Consumer Services, P.O. Box 935, Fort Worth, Texas, 1972
- 9. Public Relations Gold Mine, National School PR Association. Vol. 1, 1957, ch. 9, 10 Vol. 2, 1959, ch. 2 Vol. 3, 1961, ch. 10412 Vol. 4, 1962, ch. 1 4 5 Vol. 5, 1963, ch. 3 4 11

Vol. 6, 1964, ch. 7 & 9 Vol. 7, 1965, ch. 12 & 14

- 10. Tierney, William F., "Public Relations and the Industrial Arts Teacher", IAVE, Vol. 52, #7, 9/63, pp. 26-29.
- 11. Wilber, Gordon O., and Pendered, Norman C., Industrial Arts on Gereral Education, 3rd Ed., International Textbook Co., Scranton, Pa., 1967, ch. 18, pp. 295-312.

CAREER CLUSTER INFORMATION SOURCES

The following section identifies additional sources of career information that are available both in the local community and on a national level. To assist the teacher in his search, the information is organized in a format of fifteen career clusters.



AGRICULTURE BUSINESS & NATURAL RESOURCES CAREER CLUSTER

- 1. Accountants
- 2. Conservationists
- 3. Engineers
- 4. Inspectors
- 5. Loggers
- 6. Managers
- 7. Miners
- 8. Office Workers
- 9. Park Managers
- 10. Researchers
- 11. Salesmen
- 12. Scientists
- 13. Truckers
- 14. Veterinarians

- 1. Agricultural Cooperative Extension Services
- 2. Agricultural suppliers
- 3. City water departments
- 4. Local dairy outlets
- 5. Professional societies





BUSINESS AND OFFICE CAREER CLUSTER

- 1. Accountants
- 2. Bookkeepers
- 3. Computer Programmers and Operators
- 4. Machine Transcribers
- 5. Managers in Charge of Operations
- 6. Office Clerks
- 7. Office Machine Operators
- 8. Secretaries
- 9. Stenographers
- 10. Typists

- American Bankers Association
 Park Ave.
 New York, N. Y. 10016
- 2. Large area businesses
- 3. Local banks
- 4. Local and national insurance companies
- 5. National Association of Legal Secretaries P.O. Box 7394
 Long Beach, Calif. 90807
- 6. Office and Professional Employees International Union 1012 Fourteenth St. Washington, D. C. 20005





COMMUNICATION CAREER CLUSTER

- 1. Broadcasters
- 2. Computer Programmers
- 3. Creative Reporting Artists
- 4. Designers
- 5. Electronic Servicemen
- 6. Photographers
- 7. Recorders
- 8. Scientists
- 9. Teletype Servicemen
- 10. Teletype Operators
- 11. Telephone Operators
- 12. Telephone Servicemen
- 13. Telephone Linemen
- 14. Writers

- 1. Advertising agencies
- 2. Local newspapers
- 3. Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402
- 4. Telephone companies
- 5. Television and radio stations





CONSTRUCTION CAREER CLUSTER

- 1. Bricklayers
- 2. Buyers (material purchasing)
- 3. Carpenters
- 4. Cement Masons
- 5. Craftmen
- 6. Designers and Architects
- 7. Electricians
- 8. Equipment Operators
- 9. Interior Decorators
- 10. Landscapers
- 11. Office Workers
- 12. Painters and Paper Hangers
- 13. Researchers
- 14. Surveyors

- 1. American Federation of Labor and Congress of Industrial Organizations.
 Building and Construction Trades Department 815 16th Street, N. W. Washington, D. C. 20006
- 2. Associated General Contractors of America, Inc. 1957 E. Street, N. W. Washington, D. C. 20006
- 3. American Plywood Association
- 4. General Building Contractors Association Suite 1212
 2 Penn Central Plaza Philadelphia, Penn. 19102
- 5. International Brotherhood of Electrical Workers 1200 Fifteenth St., N. W. Washington, D. C. 20005
- 6. Local construction companies



- 7. Local construction labor union
- 8. Local builders exchange
- 9. National Association of Home Builders 1625 L. Street, N. W. Washington, D. C. 20036
- 10. Window Glass Cutters League of America 1078 South High St. Columbus, Ohio 43206



CONSUMER AND HOMEMAKING CAREER CLUSTER

- 1. Cabinet Makers
- 2. Chefs
- 3. Childcare Nurses, Teachers
- 4. Clothing Designers
- 5. Dishwashers
- 6. Dry Cleaners
- 7. Food Testers and Researchers
- 8. Interior Decorators
- 9. Models
- 10. Researchers
- 11. Tailors and Seamstresses
- 12. Textile Workers
- 13. Upholsterers
- 14. Waitresses/Waiters

- 1. American Economic Association 629 Noyes St. Evanston, Ill. 60201
- 2. Better Business Bureaus
- 3. Educational Foundation for the Fashion Industry 227 West 27th Street New York, N. Y. 10001
- 4. Local consumer affairs units
- 5. Local Cooperative Extention Services
- 6. 4-H directors





ENVIRONMENT CAREER CLUSTER

- 1. Chemists
- 2. Designers
- 3. Physicians
- 4. Educators
- 5. Garbagemen
- 6. Inspectors
- 7. Law Enforcement Officers
- 8. Miners
- 9. Planners
- 10. Scientists
- 11. Surveyors
- 12. Researchers
- 13. Conservationists
- 14. Forest Rangers

- 1. American Forest Institute 1835 K Street, N. E. Washington, D. C. 20006
- 2. City water departments
- 3. Local and state fish hatcheries
- 4. Local 200
- 5. Parks departments
- o. State and national soil conservation departments



FINE ARTS AND HUMANITIES CAREER CLUSTER

- 1. Actors
- 2. Artists
- 3. Carpenters and Painters
- 4. Composers
- 5. Designers
- 6. Electronic Technicians
- 7. Historians
- 8. Interpreters
- 9. Language Teachers
- 10. Make-up Persons
- 11. Musicians
- 12. Producers
- 13. Seamstresses
- 14. Writers

- 1. Art galleries
- 2. Local repertory theaters
- 3. Local symphony orchestras
- 4. Television and radio stations





HEALTH CAREER CLUSTER

- Ambulance Drivers
- 2. Dentists
- 3. Inspectors
- Maintenance Workers
- Nurs**e**s
- Physical Therapists 6.
- Physicians
- 8.
- Psychiatrists
 Rehabilitation Therapists 9.
- Researchers 10.
- 11. Scientists
- 12. Secretaries
- 13. Social Workers
- 14. Technicians

- 1. American Medical Association
- American Public Health Association 1790 Broadway New York, N. Y. 10019
- 3. International Society of Clinical Laboratory Technologists 805 Ambassador Building 411 N., 7th St. St. Louis, Mo. 63101
- 4. Local hospitals
- Narcotics addiction control centers 5.
- 6. National Association for Practical Nursing Education and Services
- 7. Nursing homes
- Pharmaceutical laboratories
- Red dross and veterans hospitals





HOSPITALITY AND RECREATION CAREER CLUSTER

- 1. Artists
- 2. Athletic Directors and Instructors
- 3. Cashiers
- 4. Cooks
- 5. Counselors
- 6. Hostesses
- 7. Librarians
- 8. Managers in Charge of Operations
- 9. Museum Curators
- 10. Park Inspectors
- 11. Professional Athletes
- 12. Sales Clerks
- 13. Tour Directors
- 14. Waitresses/Waiters

- 1. American Hotel and Motel Association 221 West 57th St. New York, N. Y. 10019
- 2. Boys Club of America
- 3. City parks departments
- 4. Council on Hotel, Restaurant, and Institutional Education Statter Hotel Ithaca, N. Y. 14850
- 5. Local university coaching staffs
- 6. Local YMCA/YWCA





MANUFACTURING CAREER **CLUSTER**

- Artists
- Assemblers
- Bench Workers
- Designers Inspectors
- Machine Operators
- Maintenance Workers
- Miners 8.
- 9. Office Workers
- 10. **Packagers**
- 11. Processors
- 12. Researchers
- 13. Salesmen
- Warehouse Workers 14.

- Bureau of Apprenticeship and Training Manpower Commission 1. Department of Labor Washington, D. C. 20201
- Local industrial plants
- 3. Local bakeries
- Junior Achievement Inc. New York, N. Y.





MARINE SCIENCE CAREER CLUSTER

- 1. Chartologists
- 2. Computer Programmers
- 3. Divers
- 4. Inspectors
- 5. Laboratory Technicians
- 6. Maintenance Men
- 7. Navigators
- 8. Oil Drillers
- 9. Office Workers
- 10. Radio Operators
- 11. Researchers
- 12. Sailors
- 13. Seafood Processors
- 14. Surveyors

INFORMATION SOURCES

- 1. Local marinas
- National Maritime Union of America 36 Seventh Ave. New York, N. Y. 10011
- 3. Shipbuilders Council of America 1730 K Street, N. E. Kellogg Biological Station Hickory Corners, Mich. 49060
- 4. U. S. Department of Interior Bureau of Comercial Fisheries Washington, D. C.

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MARKETING AND DISTRIBUTION CAREER CLUSTER

- 1. Artists
- 2. Bankers
- 3. Brokers
- 4. Buyers
- 5. Designers
- 6. Economists
- 7. Exporters
- 8. Mail Order Sales
- 9. Managers in Charge of Operations
- 10. Office Workers
- 11. Realtors
- 12. Salesmen
- 13. Shippers
- 14. Mechanics

- 1. American Advertising Federation 1225 Connecticut Ave., N. W. Washington, D. C. 20036
- 2. American Marketing Association 230 North Michigan Ave. Chicago, Ill. 60601
- 3. City department stores
- 4. Local insurance companies
- 5. Local restaurants
- 6. National Association of Direct Selling Companies 165 Center St. Winowa, Minh. 55987





PERSONAL SERVICES CAREER CLUSTER

- 1. Animal Trainers
- 2. Artists
- 3. Barbers
- 4. Beauticians
- 5. Dieticians
- 6. Masseurs
- 7. Physical Directors
- 8. Physicians
- 9. Researchers
- 10. Salesmen
- 11. Testers
- 12. Teachers
- 13. Writers
- 14. Funeral Directors

- 1. Airlines
- 2. Beauty and barber schools
- 3. Dry cleaning plants
- 4. Local funeral homes
- 5. Local stock brokerage agenicies
- 6. Motels and hotels







PUBLIC SERVICES CAREER CLUSTER

- 1. Attorneys
- 2. Child Welfare Workers
- 3. Counselors
- 4. Garbagemen
- 5. Gas and Water Meter Readers
- 6. Highway Maintenance Workers
- 7. Immigration Officers
- 8. Judges
- 9. Law Enforcement Officers
- 10. Mailmen
- 11. Nurses
- 12. Public Park Workers
- 13. Public Transportation Operators
- 14. Social Workers
- 15. Teachers

- 1. American Personnel and Guidance Association
- 2. Department of Health, Education and Welfare
- 3. Local Director of Consumer Affairs
- 4. Local fire departments
- 5. Local police departments
- 6. Local water departments
- 7. Military recruiters
- 8. Nursery schools
- 9. Social Security Administration
- 10. Society of Fire Protection Engineers 60 Batterymarch St. Boston, Mass. 02110
- 11. State employment agencie 455





TRANSPORTATION CAREER CLUSTER

- 1. Aviators
- 2. Computer Programmers
- 3. Construction Workers
- 4. Designer
- 5. Dispatchers
- 6. Drivers
- 7. Electronic Technicians
- 8. Engineers
- 9. Inspectors
- 10. Mailmen
- 11. Merchant Marine Seamen
- 12. Navigators
- 13. Ticket Agents
- 14. Ship Pilots
- 15. Stewardesses/Stewards

INFORMATION SOURCES

- 1. Airline Employees Association 5600 South Central Avenue Chicago, Illinois 60638
- 2. American Automobile Club
- 3. Bus and train companies
- 4. International Organization of Masters, Mates, and Pilots 39 Broadway, New York, N. Y. 10006
- 5. Office of Maritime Manpower Maritime Administration U. S. Department of Commerce Washington, D. C. 20235
- 6. State departments of transportation
- 7. Trucking firms

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GLOSSARY

ability - job or acts that a person is capable of performing

apprentice - one who learns by practical experience under the

supervision of a skilled worker

automation - controlling a process by means other than the

use of a man

biased - showing only one side of a question or issue

blue collar worker - skilled or semi-skilled hourly wage earner

blue print - photographic print, white on a blue background,

used for copying plans, maps, etc.

career - successful pursuit of an occupation; course of

or progress of a worthy activity

career clusters - jobs related to a major field of employment

career exploration - gathering of occupational information related

to a specific job

community source of information and assistance which

resources - are available in the community

culture - social characteristics of different peoples

curriculum logically thought out approach to a course of

development - study

dividend share of surplus profits paid to a stockholder

evaluation - appraisal of behavioral changes through the use

of observation, written materials and skills

fixture or jig - device to hold and guide work securely for various

operations

flow chart - device used to organize and regulate the flow of

materials, parts, and personnel between stations

in mass production

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foreman - a person supervising a group of workers

goal - a desired end which a person must apply his

energies in order to achieve

gross profit - total profit before expenses

interest - desire or attraction toward a thing, place or

person

job - specific duty involved in the act of work

job application - background information form required by

an employer

journeyman - a person certified to perform tasks in a

skilled trade

labor - working force composed mostly of skilled,

semi-skilled and non-administrative persons

management - a group of people who make up the administrative

work force; decision makers

net profit - profit remaining after deduction of charges,

outlays, losses, etc.

occupation - a specific area of employment

production line - systematic arrangement of machinery, materials,

supplies and personnel necessary to manufacture

a product with dispatch and efficiency

promotion - an advance in position

public relations - communication process between an organization

and its public

resume - short account of one's career and qualifications

prepared typically by an applicant for a position

salary - fixed compensation paid regularly for services

saleable skill - specific training which allows one to compete in

the job market





self awareness - knowing ones aptitudes, capabilities, interests

and needs

team teaching - the use of two or more instructors in presenting

materials

trade - a skilled occupation requiring manual or mechanical

abilities

unemployed - not engaged in a gainful occupation

union - a coalition of workers united for a common

purpose

unskilled - a job which is not dependent on training or

experience -

wages - payment for services rendered

white collar worker - usually a salaried employee with administrative or

office skills

work - a specific task, duty or function

working papers - protect a minor against over-work, under

pay and dangerous jobs



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