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ABSTRACT

The outline lists 14 career education activities that middle school teachers (grades 6-8) can relate to subject areas of: science, mathematics, English, social studies, foreign language, art, home economics, music, and industrial arts. Educational requirements are described for various occupations; occupations also are listed under appropriate subject areas. Activities include: role playing, field trips, audiovisual aids, interviewing, panel discussions, job applications, career notebooks, and hobby displays. (EA)

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SUGGESTED ACTIVITIES
FOR
RELATING BASIC SCHOOL SUBJECTS **BEST COPY AVAILABLE**
TO
FUTURE CAREERS

An Exemplary Program for Occupational Preparation
at
Carver Middle School

(Grades 6-8)

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Orleans Parish School System

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in

George W. Carver Middle School

Exemplary Program for Occupational Preparation

New Orleans Public Schools

School Subjects and Your Career

This outline is designed to aid teachers in their effort to have students look at some of the basic school subjects and see how they are related to future careers - thus making school more meaningful and relevant to their needs.

It is suggested that teachers be concerned about giving students a background from which they can make knowledgeable vocational choices in later life. Therefore, students should have an opportunity over a long period of time to develop a reservoir of information, attitudes and experiences which will serve as a base when career decisions are made later.

In using this outline, some of the activities which teachers of science, mathematics, english, social studies, foreign language, art, home economics, music and industrial arts may employ in having pupils explore careers as they relate to subject areas are:

- A. Role Playing**
- B. Have student volunteer to explore a career and report to the class the kind of work done, the qualifications and preparation needed, the industries in which employed, the earnings and conditions of work, and the employment outlook.**
- C. Use of Resource Persons**
- D. Bulletin Board Displays**
- E. Related Field Trips**
- F. Use of Filmstrips, Records and Films**
- G. Filling Out Job Application**

- H. Interviewing
- I. Display Books and Materials Related To Careers
- J. Have Students Make Posters and Charts of Occupations
- K. Have Pupils Clip Out Job Information From Newspaper
- L. Panel Discussions
- M. Development of Career Notebooks
- N. Student may display and explain his hobby and relate careers to which his hobby could lead.

SCIENCE AND YOUR CAREER

Many professions require a year or two of science; for others, you will need four years, plus several additional years of graduate study. All scientific professions, of course, require substantial training in mathematics in addition to science courses.

Below are given three lists of occupations. The first list includes scientific occupations in which at least a bachelor's degree is required, and in many a master's or a Ph.D. degree is required:

Astronomers	Oceanographers
Chemists	Physicists
Engineers	Science teacher in college
Geographers	Science teacher in high school
Geologists	
Geophysicists	
Meteorologists	

The following occupations are those in which you will need some post-high-school training in applied science, besides high-school science courses:

Biological scientists	Pharmacists
Dentists	Physical therapists
Dietitians	Physicians
Foresters	Soil conservationists
Home economists	Soil scientists
Nurses	Technical salespersons
Optometrists	Veterinarians

The list below includes some occupations in which high-school or vocational-school science courses are generally needed:

Air-conditioning and refrigeration mechanics	Linemen Machinists Photoengravers
Automobile mechanics	Photographers Plumbers and pipe fitters
Dental-laboratory technicians	Sheet-metal workers Stationary engineers
Diesel mechanics	Television and radio servicemen
Electricians	Tool and die makers
Instrument makers	Welders
Instrument repairmen	
Jewelers and jewelry repairmen	

MATHEMATICS AND YOUR CAREER

Mathematics is important in career planning in many ways. For many skilled trades, it is part of apprenticeship training, building on your high-school courses. Most colleges require high-school mathematics for entrance. Another need for mathematics is in applying for a job. Many large business organizations and government agencies give entrance examinations. Mathematics is almost always included as part of these examinations.

The list below names some occupations that require a considerable amount of college math, as well as high-school courses:

Actuaries	Engineers
Astronomers	Geophysicists
Chemists	Mathematicians
College or high- school teachers of mathematics	Physicists Statisticians

The following list indicates some occupations that require some college math but generally less than those in the previous list:

Accountants	Industrial traffic managers
Airplane pilots	Marketing-research workers
Air-traffic controllers	Meteorologists
Architects	Pharmacists
Bank officers	Political scientists
Biological scientists	Programmers
Economists	Psychologists
FBI agents	Purchasing agents
Geographers	
Home economists	

The following list includes those occupations in which high-school and vocational-school mathematics is important:

Airplane mechanics	Linemen
Bank clerks	Machinists
Bookkeeping workers	Medical technicians
Bricklayers	Plumbers and pipe
Carpenters	fitters
Electricians	Sales workers
Instrument makers	Sheet-metal workers
Insurance clerks	Tool and die makers

ENGLISH AND YOUR CAREER

There are many reasons why English is required in high school and college. For one thing, skill in the English language is basic to many jobs and is helpful to nearly everyone. Whether you are a sales-clerk or a doctor, you have to communicate with people orally. Whether you are a secretary, a newspaper reporter, or the president of a large bank, you have to be able to communicate in writing. Courses in English will help you to do this.

It is difficult to list occupations in which the study of English is helpful, since this is so in nearly every field. However, the list below illustrates the kinds of occupations for which the study of English is necessary or useful:

Actor, actress	Lawyer
Advertising	Librarian
copywriter	Newspaper reporter
Announcer (radio	Printing occupations
and TV)	Proofreader

Clergyman	Public-relations
Court reporter	worker
Director (radio and TV)	Receptionist
Drama teacher	Salesman, saleswoman
Editor	Secretary, stenographer
Hostess (restaurant)	Speech pathologist, audiologist
Interviewer (marketing research)	Telephone operator
Stewardess	Writer
Teacher	
Technical writer	

SOCIAL STUDIES AND YOUR CAREER

There are many reasons to study the social sciences in addition to their relation to careers. Social sciences help one understand how our society works and how it got that way.

Listed below are some occupations which require study of the social sciences:

Advertising, marketing- research, and public-relations workers	Insurance agents Lawyers Librarians Newspaper reporters
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Anthropologists	Nurses
Banking officers	Personnel workers
Clergymen	Physicians
Counselors	Policemen and
Dietitians	firemen
Economists	Political scientists
Engineers	Psychologists
FBI agents	Purchasing agents
Geographers	Radio and television
Historians	program directors
Home economists	Social workers
Hospital	Sociologists
administrators	Teachers
Hotel managers	Urban planners
Industrial traffic	
managers	

FOREIGN LANGUAGES AND YOUR CAREER

Some occupations which come to mind are those of stewardesses, salespeople, diplomats, and hotel clerks and guides. Below is a list of only a few occupations for which a foreign language is needed or useful:

Actors	Biological scientists
Advertising,	Chemists, physicists,
marketing-research,	astronomers
and public-	Geographers

relations workers	Physicians
Geologists	Secretaries
geophysicists,	Social scientists
meteorologists	Social workers
Hotel occupations	Teachers
Librarians	Waitresses
Musicians	
Newspaper reporters	

OTHER SCHOOL SUBJECTS AND YOUR CAREER

We have demonstrated how such basic subjects as English and mathematics are related to careers. Many courses not required in high school, but which one can choose, are also related to careers. Listed below are occupations related to certain high-school or college courses.

Occupations in which art is needed or useful:

Architect	Engraver
Art critic	Fashion designer
Art teacher	Industrial designer
Artist	Interior designer
Cartoonist	Jewelry designer
Commercial artist	Landscape planner
Decorator	Photographer
Draftsman	

Occupations in which the study of home economics is necessary or useful:

Agricultural extension worker	Home economist
Caterer	Housekeeper
Chef	Institutional manager
Cook	Nurse
Dietitian	Nutritionist
4-H Club worker	Occupational therapist
Home economics teacher	Waiter or waitress

Occupations in which courses in music are needed or useful:

Arranger	Music librarian
Choirmaster	Music teacher
Choreographer	Piano tuner
Composer	Salesperson, musical instruments
Concert director	Salesperson, records or sheet music
Conductor	Singer
Dancer Musician	Machinist
Cabinetmaker	Molder
Carpenter	Maintenance mechanic
Draftsman	Printer
Electrician	Radio and television serviceman
Engineer	Welder
Machine operator	
Repairman	
Shop teacher	