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ABSTRACT

The guide is one of a series developed in a pilot project to integrate career education concepts with subject matter in secondary grades. The units are designed to reveal career orientation aspects of traditional topics within five major subject areas: English, social studies, mathematics, science, and health and physical education. The lesson plans are presented in brief outline form, but activities range from those of short duration to several weeks. All provide broad objectives, performance objectives, lesson procedures, and materials and resources in all media. The units in health and physical education directed to grades 8-12 cover sports, disease prevention and control, safety, illegal use of marihuana, first aid, gun safety, mental health, bone fracture, air pollution, nutrition, hobbies and crafts, dentistry, insurance, and driving a car. (MDW)
INTRODUCTION TO SECONDARY CAREER EDUCATION ACTIVITIES

The Career Education Program of the Radford City Schools is a pilot project of research and development for career education techniques and materials. It is funded through a grant from the United States Office of Education which extends until December 14, 1974.

The activity approach was utilized to implement career education concepts on the secondary level. The activities were developed in five major subject areas which include Mathematics, English, Science, Health and Physical Education and Social Studies.

The intent of the activities is to assist in re-focusing traditional subject matter content to the extent that career orientation evolves as the original content is presented.

Some career activities are short in duration while others may consume several weeks.
HEALTH AND PHYSICAL EDUCATION
PADFORD CITY SCHOOLS CAREER EDUCATION PROGRAM

"SAFETY IN THE HOME, SCHOOL, AND COMMUNITY"

GRADE: 8
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:

To help the student gain a knowledge of what constitutes safe practices and apply this knowledge in the school, home, and community.

PERFORMANCE OBJECTIVE:

The students will be able to relate vocations created by practicing and enforcing safety.

LESSON PROCEDURE:

Lecture: Discussing automobile accident facts available from the National Safety Council.

Group Discussion: Discuss activities you engage in daily that may lead to some type of accident.

Guest Speaker: Invite an insurance agent to discuss accident and home owners insurance and to give a description of his job.

Film: "Safety Rules for School".

Filmstrips: "Fire Safety in Your School and Other Buildings" and "Preventing Fires in Your Home".

Preparing an emergency plan for evacuating one's home in case of fire.

Field Trip: Visit the Fire Department and Rescue Squad to observe the equipment, and discuss the various occupations involved.

Bulletin Board: "Bicycle Safety".

MATERIALS AND RESOURCES:

Texts:


Films:

Filmstrips:


Bulletin Board
GRADE: 8
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:
1. To help the student become conscious of the serious dental problem in our country.
2. To instill an understanding of the importance to health and appearance of taking good care of the teeth and gums.
3. To create an awareness in the student of career opportunities in the field of dentistry and dental hygiene.

PERFORMANCE OBJECTIVES:
1. Each student shall be able to list at least four careers related to dentistry, the qualifications and duties of each.
2. The student shall be able to write paragraphs on the seriousness of the dental problem in our country and be able to list suggestions for improving it.
3. Each student shall name and describe three diseases of the gums.

LESSON PROCEDURE:
1. Introduce the unit with a discussion of how clean, sparkling teeth affect your appearance and health.
2. Have students read from the text the section on care of the teeth.
3. Give a demonstration of proper and improper brushing techniques.
4. Show filmstrips on dental assistants and dental lab technicians.
5. Assign reports on topics related to dental care and dental science.
7. End unit with a written evaluation of what has been learned.

MATERIALS AND RESOURCES:
Books:
Collins, Daniel A. Your Teeth, A Handbook of Dental Care for
Books: (Continued)


Filmstrips:

Jobs in Health Service. "Dental Assistant", "Dental Laboratory Technician". Coronet Films

Resource Persons:

Dental Assistant
Dental Hygienist
Dentist
Receptionist
Oral Surgeon
Orthodontist

Career Briefs:


Films:

Some Careers are More Rewarding. Modern Talking Picture Service. 16 mm, Sound, 12 minutes.
GRADE: 8
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:
To help the pupil develop an understanding of the nature, uses and dangers of marijuana.

PERFORMANCE OBJECTIVE:
To relate to the student vocations created out of the illegal uses of drugs.

LESSON PROCEDURE:
Lecture on the difference between smoking cigarettes and smoking marijuana.

Group discussion on "Why some people cannot obtain relaxation, laughter, and a sense of well-being without a drug".

Filmstrip with Sound: "Marijuana".

Demonstrate the odor of marijuana by using a synthetic substance.

Bulletin Board on the different ways marijuana is used.

Students write an essay on "Whether or not he thinks he would develop an emotional and psychological dependence on marijuana.

Guests from Bland Correctional Farm to discuss the penalty for using, possessing, and distributing marijuana.

Various vocations will be brought in with the daily lesson plan.

MATERIALS AND RESOURCES:

Text:

Books:

Filmstrip: (With Sound)
Bulletin Board on the different ways marijuana is used.
RADFORD CITY SCHOOLS CAREER EDUCATION PROGRAM
"NUTRITION: SELF-IMPROVEMENT"

GRADE: 8 AND 9
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVES:
1. To teach the students that nutrition can affect how you look.
2. To instill a desire in each student to make intelligent choices about foods, food fads, and sensational claims.
3. To develop an interest in careers related to the field of nutrition.

PERFORMANCE OBJECTIVES:
1. Each student shall show by a written examination that she has learned the importance of good nutrition.
2. Students will be able to list and give duties and qualifications for at least three careers in the field of nutrition.

LESSON PROCEDURE:
1. Each girl will access her goals — just what does she hope to gain from this unit in the way of weight control.
2. A survey will be conducted of all foods eaten by the students for a three day period. Calorie charts will be available so that each girl can total her calorie intake for each of the three days. Information will be available as to how many calories should be taken in by each student in order to maintain present weight, to gain weight, or to lose weight.
3. The importance of wise food choices; the dangers of fad dieting; how nutrition can affect your appearance, self-confidence, and relationship with others; and the fact that the individual has the primary responsibility for her good nutrition will be discussed.
4. A film will be shown.
5. Dieticians, home economists, or nutritionists will be brought in to speak to the class on the importance of good nutrition and also about a career in this field.

MATERIALS AND RESOURCES:

Pamphlets:

Pamphlets: (Continued)

To Breakfast or Not to Breakfast? Leaflet, Jh-sh-c-ad, Kellogg Company, Department of Home Economics Services, Battle Creek, Michigan 49016


GRADE: 9
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:
To help the pupil acquire a knowledge of communicable diseases and to realize the importance of keeping germs from entering the body.

PERFORMANCE OBJECTIVE:
The students will become aware of the communicable and non-communicable diseases, their symptoms, causes, and preventions. They will also become aware of the job opportunities available in these areas.

LESSON PROCEDURE:
Lecture on common signs and symptoms of communicable and non-communicable diseases.

Essay on the "Contributions of scientists in the field of health and how these contributions have helped in prevention and control of disease".

Films, "Body Defense Against Disease" and "Infectious Diseases and Natural Body Defenses".

Students bring in clippings from newspapers and magazines on recent medical advances.

Filmstrips, "Keeping Foods Safe to Eat" and "Population and Food".

Field trip to local water and sewage department.

Bulletin Board, "Danger Signs of Cancer".

MATERIALS AND RESOURCES:
Text:

Book:

Films:
Films: (Continued)


Filmstrips:


Bulletin Board
GRADE: 9
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVES:
1. To help students see themselves as others see them.
2. To give the student understanding of many approaches that may be used to assist with poor mental health habits.
3. To create interest in mental health careers.

PERFORMANCE OBJECTIVES:
1. Students shall be able to explain themselves in a "Me" Project* that will be turned in and checked by the teacher.
2. Each student shall demonstrate a knowledge of careers in the field of mental health and will be able to give the duties and qualifications of those careers in a written unit.

LESSON PROCEDURE:
1. Students will pair off and talk for 10-15 minutes, relating their likes, dislikes, strengths, and weaknesses as well as ambitions to their partner. The partner will then predict what would be a good vocation for the student to whom she has been talking. Students change places and repeat the procedure.
2. Discussion and lecture on various aspects of mental health with emphasis on factors what affect mental health and on the necessity of being able to use maturity in dealing with life situations.
3. Show filmstrips on personality.
4. Have a school psychologist in to discuss careers in mental health and the various aspects of psychology as it relates to the student.
5. As a culminating activity, have each student turn in a "Me" Project that will present the facts of her life and personality. The project may take any form the student desires, and creativity and originality are encouraged. A diary, scrapbook, poetry, log, or tape recording are a few suggestions that may be used.

MATERIALS AND RESOURCES:
Books:
Barrett, Morris. Health Education Guide, A Design for Teaching
Books: (Continued)


Resource People:

School Psychologist
Psychiatrist
Social Worker
Juvenile Judge
Probation Officer
Psychiatric Aide
Mental Hospital Physician or Nurse

Pamphlets:


How to Deal With Mental Problems. National Association of Mental Health.


Psychologists in Action. Public Affairs Pamphlet No. 229.

Because You Like People...Choose a Career in Mental Health. National Association of Mental Health.

Films:

To See Ourselves. Aetna Life and Casualty Company. 16 mm sound, 14½ minutes, 1960.

Emotional Health. McGraw Hill Book Company. 20 minutes, b and w, sh-c-as.

Filmstrips:


"Dare to be Different". Guidance Associates, Pleasantville, New York, 1969.
GRADE: 9

SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:

To have the pupil develop an understanding of the problem, its cause and harmful effects of air pollution and man's role in preventing it.

PERFORMANCE OBJECTIVE:

The student will be able to demonstrate a broad awareness of occupations that contribute to air pollution control.

LESSON PROCEDURE:

1. Assigning certain students research papers on diseases caused by air pollution and report findings to class.

2. Making a bulletin board depicting source, cause, and the elimination of air pollution in the school and community.

3. Having certain students give reports on "Smog", "Smaze", etc; their cause, dangers, and what steps are being taken to prevent these conditions.

4. Having certain students giving reports on the correlation between the increase in population and air pollution.

5. Having students list and discuss the different types of career occupations associated with air pollution control.

MATERIALS AND RESOURCES:

Supplies:
Vacuum Cleaners, Tissue Paper, Spark Plugs, Auto Muffler

Book:
RADFORD CITY SCHOOLS CAREER EDUCATION PROGRAM
"LEISURE TIME PURSUITS - HOBBIES AND CRAFTS"

GRADE: 9
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:
To help girls develop interests and abilities in crafts and hobbies that will provide life long interests for them.

PERFORMANCE OBJECTIVE:
Each girl will be able to demonstrate her ability to perform at least five new crafts, hobbies, or games as a result of this unit.

LESSON PROCEDURE:
1. Each girl will be asked to share a hobby, craft, or game with the class. She will teach it to the entire class.
2. Girls will be asked in advance to bring materials so that they may participate in actually doing the activities themselves.
3. Community and school resource people will be brought in to teach such activities as macrame', needlepoint, cake decorating, origami, flower making, flower arranging, etc.

MATERIALS AND RESOURCES:

Books:

Films:
Bright Ideas With Aluminum Foil. Reynolds Metals Company, 1968. 16mm sound, 131/2 minutes.
Of Lines and Flowers. Smithers-Oasis, 1961. 16mm sound, 45 minutes.
Films: (Continued)

Origami--The Folding Paper of Japan. Consulate General of Japan. 16mm, sound, 16 minutes.

Wonderful World of Bikes (S-320) Association--Sterling Films, 1966. 16 mm sound, 271/2 minutes.

Brochures:

Creative Crafts. Available to teachers only (use post card when requesting this material). Best Foods, a Division of CPC International, Inc.
Creative Crafts
P.O. Box 307
Coventry, Connecticut 06238

Johnson Wax Golden Rondelle
Consumer Education Center
Department FTC-H
Racine, Wisconsin 53403

Gum Wrapper Sculpture Booklet. Single copies available to teachers and librarians.
Clark Gum Company
Gum Wrapper Sculpture Booklet
Corporate Relations Department
100 Park Avenue
New York, New York 10017

Happy Holiday Series. Single copies available to teachers and librarians.
American Art Clay Co., Inc.
4717 West Sixteenth Street
Indianapolis, Indiana 46222

Needlepoint Instruction Sheet. Limit 2 copies, available to teachers only.
Hei-loom Needlework Guild, Inc.
Educational Division
15 East 26th Street
New York, New York 10010

Tie-Dye...The Great Color Explosion. Limit of 100 copies, available to teachers.
Color Explosion
Post Office Box 307
Coventry, Connecticut 06238
GRADE:  9  
SUBJECT:  HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:
To help the student develop skill in detecting and treating injuries to bones, joints, and muscles.

PERFORMANCE OBJECTIVE:
The student will be able to demonstrate a broad awareness of first aid as it applies to job roles and careers.

LESSON PROCEDURE:
1. Viewing film on fractures and first aid procedures.
2. Having students play career roles, such as, nurse, first aider, surgeon, etc.
3. Having students apply slings, ankle wraps, knee wraps, etc.
4. Inviting a local physical therpaist to meet with class to discuss first aid for springs, dislocations, etc.

MATERIALS AND RESOURCES:
Books:
American Red Cross. First Aid.

Films:
GRADE: 10
SUBJECT: HEALTH

BROAD OBJECTIVES:
1. To learn first aid techniques.
2. To investigate careers available in this and related fields.

PERFORMANCE OBJECTIVES:
1. The student will be able to demonstrate properly the techniques of first aid.
2. The student will be able to describe some of the careers in the field.

LESSON PROCEDURE:
1. Following the discussion and demonstration of techniques of first aid, the students will practice them.
2. Artificial respiration will be discussed and techniques demonstrated.
3. Show film on artificial respiration.
4. Have the students practice giving artificial respiration.
5. Ask the local Life Saving Crew to show their equipment and to talk about qualifications.
6. Have a Red Cross Life Saving Instructor talk to the class.

MATERIALS AND RESOURCES:
Text:
First Aid. American Red Cross.

Audio Visual.
Public Service II. Acoustifone (filmstrip) Career Exploration Series.
Mouth-to-Mouth Resuscitation. Ayerst Laboratories. (film)

Resource People:
Life Saving Crew
Red Cross Life Saving Instructor
"Resucikate" (A Doll)
RADFORD CITY SCHOOLS CAREER EDUCATION PROGRAM

"SPORTS EVENT"

GRADE: 10
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:

To make students aware of the various people involved in careers or activities related to athletics.

PERFORMANCE OBJECTIVE:

Students will be aware of the job duties for various occupations associated with a sports event.

LESSON PROCEDURE:

Announce to your class that they will produce a basketball game to be played with all the supporting personnel found at a regular interscholastic sports event. Allow students, with supervision, to choose occupations that they would like to research and portray. Some possible choices are players, coaches, referees, score keeper, announcer, clock operator, first aid (trainers), equipment manager, custodian, policeman, commercial artist and printer for programs, ticket takers, statistician, photographer, reporter, refreshment salesman, cheerleaders, assistant principal and principal. The students will then gather information about their occupation by reading career pamphlets and interviewing people who perform the jobs they will portray.

The game will be more realistic if there are spectators present so plan to invite other classes to attend.

The day of the game be sure all of the electrical equipment is set up in advance and in working order. During the event create opportunities for everyone to carry out his role: the custodian can sweep the floor between quarters, the first aid people attend to an injured player, the policeman can maintain order, the principal can be introduced at half time to make an announcement, the printer and commercial artist can distribute their programs at the door.

As a follow up activity have the reporter and photographer submit a story and pictures to the school and/or local newspapers. Discuss with the class the contributions each person makes to the total operation of a sports event.

MATERIALS AND RESOURCES:

Desk Top Career Kit. Careers. Largo, Florida.
Occupational Exploration Kit. S.R.A.
MATERIALS AND RESOURCES: (Continued)

Physical Facilities and Equipment:

Basketballs, uniforms, microphone, time clocks, whistles, clip boards, camera, tickets, dust mop
GRADe: 10
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:
To help the student better understand the safe operation of rifles, shot guns, and pistols.

PERFORMANCE OBJECTIVE:
The student will be able to demonstrate a broad awareness of career opportunities associated with outdoor life.

LESSON PROCEDURE:
1. Invite a resource person (Game Warden, Policeman, F.B.I. Agent, etc.) to talk with the students.
2. Viewing of films on guns and gun safety.
3. Make a bulletin board depicting safety, careers, and hazards, associated with guns and outdoor life.

MATERIALS AND RESOURCES:
Films:
Safe Gun Handling. Remington Arms Company, Inc.
Teaching Gun Safety in Public Schools. Daisy/Heddon.

Books:
GRADE: 10
SUBJECT: HEALTH AND PHYSICAL EDUCATION

BROAD OBJECTIVE:
To help the pupil develop an appreciation for the importance of proper care of the body and mechanisms which control mental and emotional aspects of life.

PERFORMANCE OBJECTIVE:
The student will be able to distribute leisure time wisely, and understand the various careers that contribute to one's mental well-being.

LESSON PROCEDURE:
1. Assigning study projects on the various aspects of maintaining a healthy nervous system and reporting to the group.

2. Making a list of the leisure time activities used by the group and discuss the range of careers associated with each activity.

3. Having pupils discuss their favorite leisure time activities and the importance of the benefits derived from them.

4. Discussing reasons why physical fitness might influence a person's state of mental health.

MATERIALS AND RESOURCES:
Books:


GRADE: 10
SUBJECT: DRIVER EDUCATION

BROAD OBJECTIVES:
1. To know the rules of the road.
2. To investigate the career opportunities in the field of driving.

PERFORMANCE OBJECTIVES:
1. The student will be able to list the rules of the road.
2. The student will be able to list 5 careers and qualifications of each in the field of driving.

LESSON PROCEDURE:
1. Show film Ten Little Engines.
2. Study and discuss the rules of the road.
3. Invite a judge from traffic court to discuss the rules and the consequences of breaking them.
4. Investigate the career opportunities in the field.
5. Invite an official from a trucking concern to talk with the students on career opportunities in the field.
6. Ask a representative from a professional driving school to talk on careers.

MATERIALS AND RESOURCES:
Text:

Filmstrips:
Public Service—Public Services II. Acoustifone.
Trucking—Land Transportation. Acoustifone.

Film Loops:
Over the Road Truck Driving. Encyclopedia Britannica, 1970.
MATERIALS AND RESOURCES: (Continued)

Pamphlet:

Driving Like A Pro. Greyhound Corp.

Books:

Halsey, Maxwell N. Skillful Driving. Doubleday and Company, 1959

Film:

Ten Little Engines. Aetna Life and Casualty, Film Library, 151 Farmington Avenue, Hartford, Conn. 06115

Resource People:

Trucking Company Representative
A Judge
A Representative from a Professional Driving School
BROAD OBJECTIVE:
1. To learn how to get a driver's license.
2. To investigate careers available in this field.

PERFORMANCE OBJECTIVES:
1. The student will be able to get his learner's permit.
2. The student will be able to describe some of the careers in the field.

LESSON PROCEDURE:
1. Show the film Your Permit to Drive.
3. Ask an examiner to talk with the class about getting a license and careers in the area.
4. Invite a representative of the Governor's Highway Safety Commission to talk to the class.
5. Ask a Highway Patrolman to talk with the class.

MATERIALS AND RESOURCES:

Film:
Your Permit to Drive. General Motors Corp., Public Relations Staff-Film Library, General Motors Building, Detroit, Michigan 48202.

Resource People:
D.M.V. Examiner
Representative from Highway Safety Commission
Highway Patroman
RADFORD CITY SCHOOLS CAREER EDUCATION PROGRAM

"EXPLORING CAREERS IN INSURANCE"

GRADE: 10
SUBJECT: DRIVER EDUCATION

BROAD OBJECTIVES:

1. To understand the types of automobile insurance and the necessity of each one.

2. To investigate the career opportunities related to this field.

PERFORMANCE OBJECTIVES:

1. The students will be able to explain the different types of automobile insurance.

2. The students will be able to describe careers in the field and qualifications needed for them.

LESSON PROCEDURE:

1. Read and discuss material in the textbook on automobile insurance.

2. Use periodic literature for up-to-date information on automobile insurance.

3. The students will investigate careers through the use of Career Briefs and Careers by Largo.

4. Invite an insurance agent to talk about insurance and careers in the field.

MATERIALS AND RESOURCES:

Text:


Pamphlet:


Magazines:


MATERIALS AND RESOURCES: (Continued)

Kits: