

Science In The News

Written by Ann West, NIE Consultant
Presented By Orlando Sentinel
Newspaper In Education

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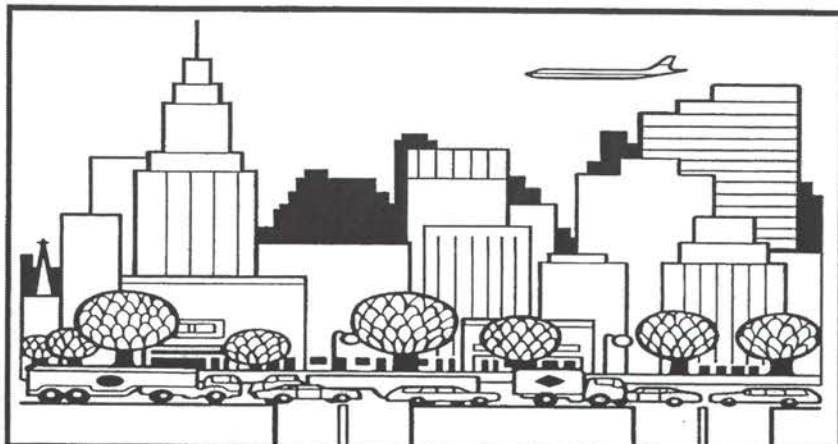
**Newspaper
in Education**

Science In The News

written by Ann West, NIE Consultant

published by

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Introduction

The newspaper is a tremendous source of information for its readers, but used in the science classroom as a learning guide, the newspaper becomes a continuing source of motivation for learning. Because the newspaper lends relevance to the daily science curriculum, students develop an awareness of the crucial role science plays in their daily lives. As students leave the formal school setting and embark on their various careers, they are likely to depend upon the newspaper for current information important to them. Science is an area that will undergo many changes during the lifetime of each of our students. One way that we can assure that students are prepared for their futures is to introduce them to an adult learning tool, such as the newspaper, to continue to learn about the world around them. The newspaper reflects science throughout its pages. It is the intention of this author that this publication lead educators and students to discover the value of the newspaper when used to enhance science instruction.

The activities contained in this publication may be used as they are or with modification to meet special needs. *Each student will need a copy of the local newspaper to complete each activity successfully.* The student must rely on the newspaper as the major source of information for completion of the activities in this guide.

While using the activities in this guide, do not overlook the opportunity to allow students time to **read** the newspaper. Some students have not had or taken the opportunity to get to know their local newspaper at home or in other classes. Help your students get acquainted with the newspaper, its index and its contents. Share your excitement for learning about science through the newspaper with your students. The more you use the newspaper with your students, the more likely they are to continue using this valuable resource long after they have left your classroom.

About the author...

This NIE guide was written by Ann West, Newspaper in Education consultant. Mrs. West has served as a teacher and administrator in public school systems in Missouri for over 15 years. Formerly NIE director for The Kansas City Star Co., she is now president of News Relief, Inc., a consulting and publishing business in Overland Park, Kansas.

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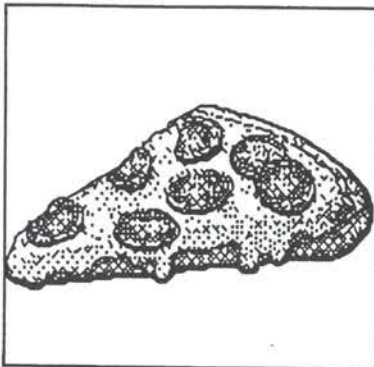
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FOCUS:
Health/Nutrition

Activity # 1

Make That Well Done



People are currently focusing on the importance of proper foods in a well-balanced diet for insurance of good health and a feeling of well-being. We have always known that selection of foods from the USDA food pyramid is important to physical growth and maintenance of healthy bodies.

Newspapers reflect the rebirth of the interest in proper nutrition. Stories about nutritional research, columns about healthy foods and food preparation and recipes for establishing a healthful diet regimen often appear in the newspaper.

Can you find examples of foods for each of the food pyramid groups that may be a part of a healthful diet?

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Student Name

- Using the knowledge that you have about the USDA food pyramid, recreate the food pyramid with the proper categories in the space below.
- Use your newspaper to find examples of several foods that can be categorized in each of the groups of the food pyramid. Record the names of the different foods you identify from the newspaper in the proper categories in the chart below.

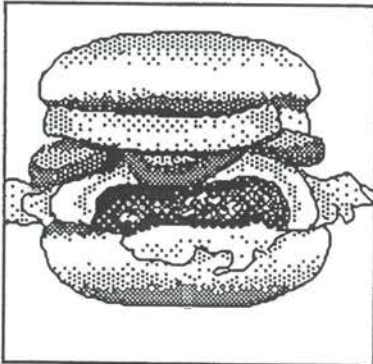
The Food Pyramid

Take the science challenge... Can you plan a day of meals and snacks for a vegetarian diet using the foods from the chart above?

FOCUS:
Health/Nutrition

Activity # 2

Nutrition Update



A traditional service the newspaper offers is advice and information about foods and food preparation.

The recipes in the newspaper often reflect current trends in tastes, food preparation and nutrition. Some recipes, however, may have to be altered to suit special nutritional needs or dietary limitations. Those who are diabetic or on salt-free diets, for example, have to make slight changes in food preparation or recipe ingredients.

Some recipes might even be changed slightly so that the ingredients and the resulting food products are nutritionally top-notch.

Student Name

- Clip several recipes from your newspaper that you might like to try out at home.
- Select two recipes which you think may be good candidates for some slight alteration in ingredients.
- Rewrite one of the recipes, making slight changes, so it would be appropriate for a person on a low-calorie or sugar-free diet.

Recipe Revision For Fewer Calories/Sugar-Free

- Revise the other recipe you selected, making changes that would make this recipe more nutritional, providing additional fiber, less fat, etc.

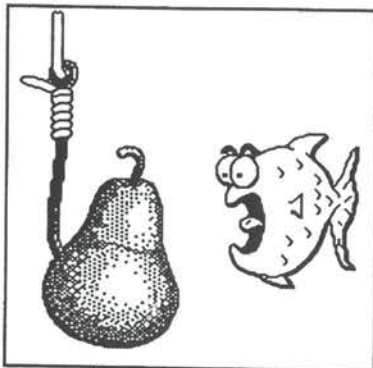
Recipe Revision For Added Nutrition

Take the science challenge... Prepare one of the recipes above at home. First, prepare the recipe as it originally appeared. Then, prepare the altered recipe you created. What were the results?

FOCUS:
Health/Nutrition

Activity # 3

The Right Choice



We live in a fast world where lifestyles lead to the need for fast foods and convenient snacks. Physical problems may await those who continually make the wrong choices for fast foods and convenience snacks.

The health food and weight loss industries are to some extent benefiting from those who realize, often too late, that their eating habits have gotten so out of control that a remedy to solve poor eating habits must now be found.

It's better to realize early what foods to avoid and what foods to make a regular part of a healthy diet to gain control over a *potential* health problem.

Student Name _____

- From newspaper advertising, clip food items that you think are not healthful food choices for snacks. (Don't be afraid to choose snacks you like!)
- Paste or glue the food pictures or words representing unhealthy snacks in the left column of the chart below.
- Review your newspaper again, looking for items that you think are healthier choices for snacks. You may be surprised how many good alternatives there are, though you may have to search a little more for these than you did for the "junk" snacks.
- Clip and attach the healthier snack choices in the right column of the chart below.
- As a class, discuss the choices made. Does anyone have a "junk" food in their "healthy" column?

<i>Junk Food Snacks</i>	<i>The Right Choices</i>
	

Take the science challenge... For two weeks, eliminate "junk" snacks from your diet. Report to the class on any changes that you detect following a two-week period of time.

FOCUS:
Health/Nutrition

Activity # 4

Take A Charted Course



Every day, it is necessary to eat certain amounts of carbohydrates, proteins and fats. These are known as organic nutrients.

Sugars, starches and cellulose are examples of carbohydrates. Fats and oils are found in butter and cheese products, as well as in meat. Proteins can be found in meat, eggs, nuts and cheese. It is important to balance the intake of these foods to stay healthy and fit.

The newspaper food section can help you find items which may fit in any one of the categories mentioned above. Occasionally, newspaper stories relate to organic nutrients or foods in which they are found.

Student Name

- Use your newspaper as a resource to select 25 food items that may be classified as either a carbohydrate, protein or fat.
- Write your selections in the columns below.
- Analyze your list and place a check mark beside each item you find which is a regular part of your diet.

Carbohydrates...

Fats...

Proteins...

Take the science challenge... Are there any foods on this list that should be avoided by someone on a salt-free diet? If so, identify the foods that should be avoided.

FOCUS:
Health/Nutrition

Activity # 5

Sell Me On That!



Though many of us know the difference between healthy and unhealthy food choices, we are often convinced by highly effective advertising to make a poor eating choice.

Newspapers carry all kinds of food advertising. It is up to us, the readers, to decide for ourselves the proper food purchases to make. We have to be informed in order to make the right choices for ourselves, rather than accepting others' recommendations for our decision.

Student Name

- Select several examples of advertising from the newspaper for foods (including beverages) that you think are nutritionally poor.
- Analyze your selections carefully, making brief notes on the arguments or techniques used to sell each of the foods of low nutrition and value.
- Discuss with your classmates your findings.
- In the space below, create an ad for a low-nutrition food that might convince the best-informed of readers to make this poor food choice.

Take the science challenge... Following your review of food advertising in the newspaper and relying upon your memory of food advertising on television and billboards, summarize on the back of this page your ideas about what types of foods are most frequently and attractively advertised and why.

FOCUS:
Health/Nutrition

Activity # 6

Vital Vitamins



Vitamins and minerals are essential for proper growth, development and maintenance of the human body.

Deficiency diseases are prevalent in third world countries, but, fortunately are not seen as frequently in North America. Many of our foods have vitamins added to them.

Many people also take vitamin supplements which also help minimize the problem of vitamin deficiency. Reliance on vitamin supplements alone is not a healthy alternative to a diet whose foods are rich in vitamins and minerals.

Student Name

- Search the grocery ads and the recipe or food section of your newspaper. Select two products which would provide several of the following vitamins and minerals and place the name or abbreviation of each product in the correct square on the chart below.

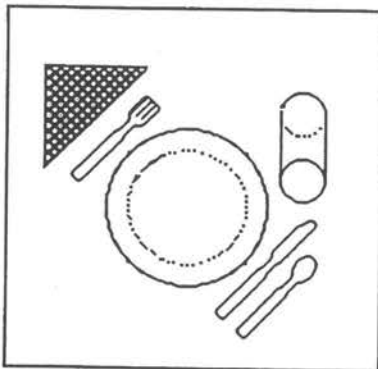
Vitamin	Product #1	Product #2
A		
B		
B2		
B12		
C		
D		
E		
K		
Calcium		
Iodine		
Iron		
Magnesium		
Niacin		
Potassium		

Take the science challenge... Research how much of each of the vitamins and minerals a person your age should receive on a daily basis. Plan a day's menu which would fulfill this recommended daily allowance without your having to take vitamin supplements. Add up the calories of your day's menu plan. What was the total calorie count for one day? Discuss why people often take vitamin/mineral supplements.

FOCUS:
Health/Nutrition

Activity # 7

Recipe Round-up



Many readers rely on the newspaper recipe and food sections for new ideas for meal planning.

Using one or two issues of the newspaper food section can provide enough recipes for several nutritionally balanced meals.

Student Name

- Locate and clip several recipes in the newspaper. Make sure you clip enough recipes for three meals for one day.
- Paste your recipes, organized by meal, on the back of this activity page.
- Analyze the recipes and categorize the ingredients into the five major food groups of the USDA food pyramid and recommended servings per day. Mark in the chart below to keep track of servings and food groups utilized in these recipes.

**Recommended Daily Servings
Per Food Group**

Bread/Cereal/Pasta

of Servings Recommended _____

Meat/Fish/Poultry

Dry Beans/Eggs/Nuts

of Servings Recommended _____

Fruits

of Servings Recommended _____

Dairy Products

of Servings Recommended _____

Vegetables

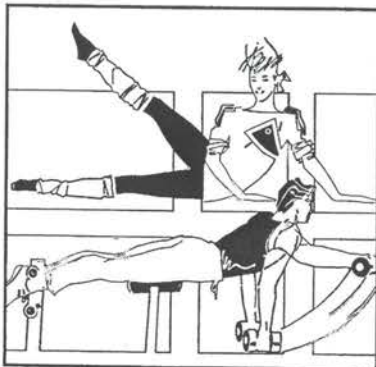
of Servings Recommended _____

Take the science challenge...Are there any changes you would have to make in your meal planning in order to meet the recommended servings on the chart? Discuss what size the recommended portions should be.

FOCUS:
Health/Nutrition

Activity # 8

Burn It Off



Daily physical exercise is important to good health and weight maintenance.

A daily physical fitness plan has been adopted by many people in an effort to feel better physically and mentally. In fact, many people choose to exercise, rather than cut back on some of their favorite foods in order to maintain or lose weight.

The newspaper frequently contains articles about exercise and diet, which may act as a guide in planning for many healthy days ahead.

Student Name

- Using newspaper recipes or food advertisements, plan one well-balanced meal. Use the space below to write down the foods you will consume during this meal.
- Using a calorie chart, calculate the total calories of the meal you have planned.

Meal Plan And Calorie Intake Estimate

- Plan a *realistic* series of exercises that will offset the calories consumed in this one meal. Use the space below to calculate how many calories are "burned" with each exercise.

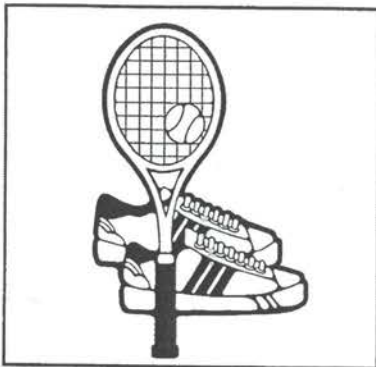
Physical "Burn Off" Plan

Take the science challenge...Plan a personal chart to track your exercise habits for one month. After one month, analyze your exercise habits and set one goal for your exercise plan that you would like to accomplish.

FOCUS:
Health/Nutrition

Activity # 9

Size Up The Competition



With the trend toward increasing physical exercise and changing lifestyles to be a more healthy nation, it is likely that newspaper readers notice an increase in advertising by physical fitness spas and clubs, as well as advertising by weight loss centers.

This advertising provides a great deal of information about the services available and allows a reader who is seeking help with an exercise or weight loss program to see what is available to them.

Student Name

- Select two advertisements from the newspaper for health/physical fitness spas or for weight loss programs. Clip these advertisements for closer inspection.
- Compare the information found in the two ads by answering the questions below.

1. What type of business is represented by your two ads, weight loss or physical fitness?
2. What are the advantages that are mentioned in each of the ads?

Ad #1

Ad #2

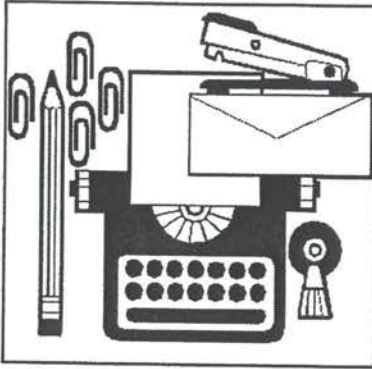
3. What are the operating hours for each of the facilities advertised?
4. What is the location of each of the facilities?
5. What are the costs of each program (if mentioned)?
6. Based on the information in each ad, which one appeals to you most? Why?

Take the science challenge... Using the ad which appealed to you most, develop a list of questions that you would want to have answered before signing any contracts or agreements to participate in the program.

FOCUS:
Health/Nutrition

Activity # 10

Words Of Wisdom



Newspapers offer advice columns of all types on various topics. These columns are intended to serve the readers of the newspaper, so the readers can receive professional advice for little cost.

Advice columns may be in different forms. Sometimes, they are paragraphs of expository writing about a particular topic of concern to people in general. Often advice columns assume the form of personal letters from readers with specific concerns, accompanied by a professional letter of response. Question and answer columns are also a popular way for advice to be given.

Student Name

- Skim through your newspaper to find as many examples as possible of columns which are intended to give any type of advice. List the columns you find below.

_____	_____
_____	_____
_____	_____

- Select one of the advice columns that you found which focuses on health and or nutrition. Briefly explain the advice given. Do you agree with the advice given? Use the space below for your responses.

**Health/Nutrition Advice
In The Newspaper**

Take the science challenge... Write a letter seeking advice on a health or nutrition concern that you have. Sign the letter and hand it in to your teacher. The teacher will distribute the letters to other classmates for a written response. Discuss the advice given. Was the advice reasonable? What are some alternatives to the advice given? If you were to seek more professional help for your concern, whom would you contact?

FOCUS:
Health/Nutrition

Activity # 11

Life Expectancy



Life expectancy changes as health and medical technology grows. How long we live is likely to depend on genetic factors, lifestyles and health care.

Though life expectancy in major portions of Africa range at present from 40-49, most recent studies reveal that the average life span for men in the United States is 76 years of age. Women can expect to live until their 84th birthday, according to the same study.

Do your city's statistics agree with national figures?

Student Name

- Collect the obituary section from your newspaper for at least five different days.
- List in the charts below the ages of the people from your area who have died.
- Calculate the average age at the time of death for men and women in your area. How does this random sampling compare with the national statistics? How would you account for the differences?

Women

Average:

Men

Average:

Take the science challenge...Research life expectancy studies for a variety of nations on different continents. Write a report on your findings, including some of the reasons why the life expectancy may be different in different parts of the world.

FOCUS:
Health/Nutrition

Activity # 12

A Good Health Prescription



A drug is any non-food substance that when put into the body changes the way the body or mind works. Legal drugs may be drugs prescribed by physicians or over-the-counter drugs that may be purchased at drug stores or other retail stores.

Newspapers frequently contain advertising for legal drugs that are available for purchase. Use of legal drugs requires caution on the part of the person using the drugs.

Student Name

- Use your copy of the newspaper to find examples of legal drugs that are advertised in the newspaper.
- Try to find at least one advertisement that focuses on a particular legal drug, what it's used for and how it should be used. Paste this advertisement below or on the back of this page.
- Circle or underline any portion of the ad that might be considered a disclaimer (warning) about the drug or its proper use.

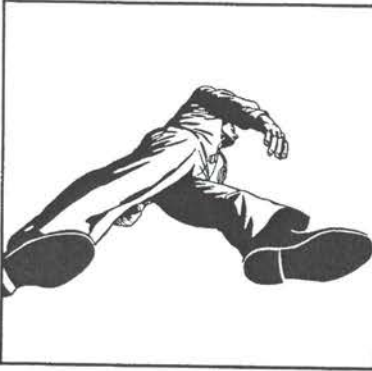
(Paste ad here.)

Take the science challenge... Try to find examples of persuasive techniques used in advertising for legal drugs. What claims are made? Can you find any questionable statements made about a drug (*medical miracle, eat all you want and lose weight, 9 out of 10 doctors recommend, etc.*)?

FOCUS:
Health/Nutrition

Activity # 13

Treading Illegal Grounds



The illegal drug trade receives a great deal of attention in the newspaper. News stories about drug busts, features about how people are trying to rebuild their lives after involvement with illegal drugs and editorials and editorial cartoons which deal with the current illegal drug crisis are prominent in many newspapers.

Newspaper stories, features and editorials often contain information about government agencies which are responsible for execution of the laws to prevent illegal drug trafficking.

Student Name

- Select one newspaper article from your copy of the newspaper which reports on a drug bust or a crime that might be linked to illegal drugs.

- In the space below, write the words of the story which answers the news questions (5 W's)...

1. What happened?

2. Who was involved in this story?

3. When did this event happen?

4. Where did this event occur?

5. Why did this event occur? (If this information is available, explain only what the newspaper account contained.)

- List below any facts you learned about illicit drug distribution from this article.

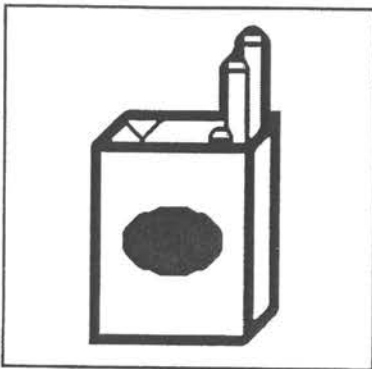
I Didn't Know That!

Take the science challenge... Prepare a list of federal, state and local agencies that are frequently mentioned in the newspaper that are involved in the confiscation of drugs.

FOCUS:
Health/Nutrition

Activity # 14

Going Up In Smoke



Smoking has been shown to be very unhealthy. It causes cancer, emphysema, heart disease, birth defects and a variety of other ailments.

It has not been many years since tobacco advertising was banned from television. Ads for tobacco still, however, appear in many newspapers, magazines and billboards.

One thing is for certain. The controversy over smoking and individual rights will continue to rage on. Newspaper coverage of this controversy, as well as public expression of opinion on this topic is likely to continue for many years.

Student Name

- Using several consecutive editions of your newspaper, keep track in the chart below of some of the references to smoking and public health. Focus your attention on all parts of the newspaper, including editorials, cartoons, comic strips, news, features and advertising.
- Place any remarks you find about smokers' rights in the appropriate space below.
- Place any remarks you find about the disadvantages of smoking in the space provided.
- Record in the space provided any new laws, city ordinances or regulations which pertain to this controversy and are reported in your newspaper.

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Smokers' Rights

Disadvantages of Smoking
(those referred to in the newspaper)

Recent city ordinances, laws, regulations that have been passed in regard to smoking

Take the science challenge...Analyze cigarette advertising. Discuss how the advertising is made appealing.

FOCUS:
Health/Nutrition

Activity # 15

Why Use, Why Abuse?



Use of illegal drugs and those which are harmful, yet not illegal-cigarettes, alcohol, etc.-receives a lot of attention in the media.

Why does this abuse continue? Many reasons may be given by those who abuse the use of these substances.

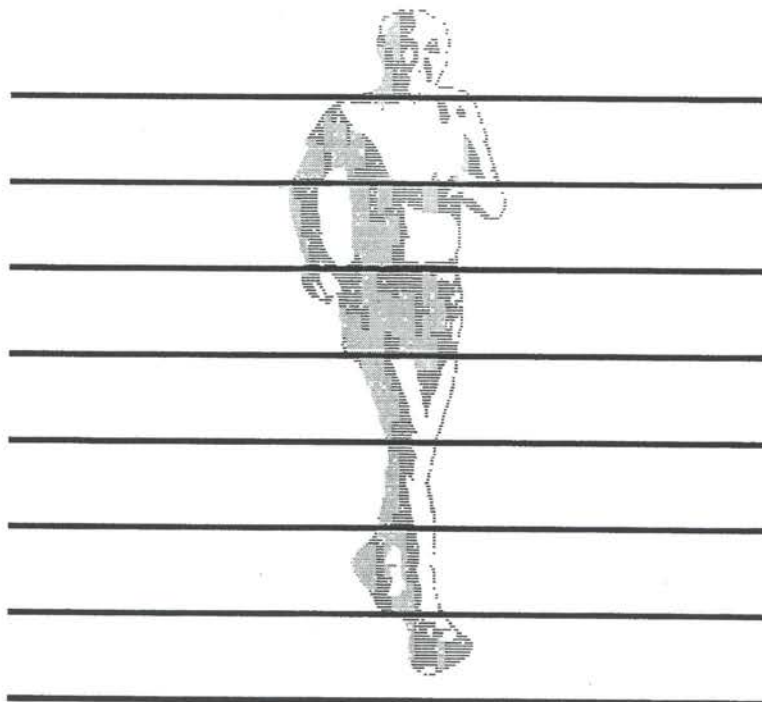
It is important that the alternatives to drug abuse are known so that we do not fall victim to the problems we hear and read about.

Student Name

- Set forth below some of the reasons why you think people use drugs that are not necessary to good health. If you need help in finding reasons why people may abuse drugs, look through your newspaper to identify situations which might make a person vulnerable to drug abuse.

- For each reason given above, provide a healthy alternative that should be considered. Put your ideas in the space below.

Healthy Alternatives



Take the science challenge...Collect articles and advertisements from the newspapers that support the view that drugs are a major part of our culture. Make a collage of your collection.

FOCUS:
Health/Nutrition

Activity # 16

Drugs In The Workplace



Not only have drugs created problems for the individual and the family, abuse of drugs has created critical concern within the workplace.

Businesses nationwide are implementing programs to help offset the problems in factories, in the office and in the board room created by drug abuse.

The problems that exist are not just those which affect the individual's ability to be productive and the company's ability to be profitable. Often the problems are far-reaching, having impact on the public who purchases products and services offered by these businesses.

Student Name

- Use the classified advertising in your newspaper to select two jobs which require gross and fine motor skills capability.
- Clip the ads for these jobs and paste them below.

- Find an example of a job which requires unimpaired brain function in decision-making. Clip this advertisement and paste it below.

- For each of the three jobs which you have selected, identify the problems that might occur (within the company and for the buying public) if the person performing each task is abusing drugs.

<u>Internal Problems</u>	<u>External Problems</u>
<u>Job #1</u>	
<u>Job #2</u>	
<u>Job #3</u>	

FOCUS:
Health/Nutrition

Activity # 17

Comic Catastrophes?



Comic strips are frequently a reflection of the real world, giving us a view of real problems in a fictional situation.

Comic strips often contain messages about current lifestyles or make reference to current issues and topics.

Even comic characters can be a composite of a particular type of person that we know in real life. As such, we may be able to objectively analyze comic characters that may be headed toward development of serious health problems due to their lifestyles.

Student Name

- Select two comic strip characters from your newspaper that you think have lifestyles which could lead to health problems later on in their "lives."
- Clip a picture of each of the comic strip characters, paste them below and write out a "profile" of their lifestyles and what problems may occur as a direct result of their lifestyles. Suggest changes that should be made to avoid collisions with poor health or even untimely "deaths."

Comic Profile #1

Comic Profile #2

Take the science challenge... Can you identify one comic strip character that has a lifestyle similar to your own?

FOCUS:
Health/Nutrition

Activity # 18

Defining Diseases



Newspapers frequently contain stories, features, editorials, advertising and comic strips which make reference to diseases.

The broad category of disease may be further defined as diseases which are communicable and those which are non-communicable.

How many references to disease are you likely to find in your newspaper?

Student Name

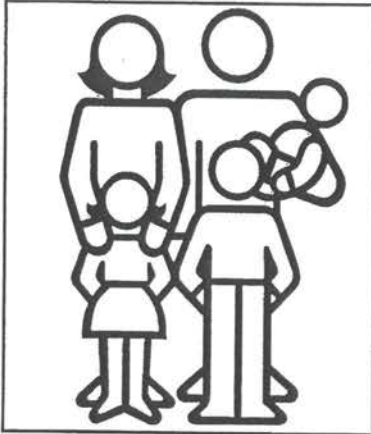
- Use your newspaper to find mention of two different diseases.
- Research and identify for each disease mentioned its symptoms, treatments/cures, prevention and any significant research developments.

	<u>Disease #1</u>	<u>Disease #2</u>
Symptoms	_____	_____
Cure-Treatment		
Prevention		
Research Developments		

FOCUS:
Health/Nutrition

Activity # 19

A State Of Good Health



People everywhere are aware of and attempting to achieve good health and physical condition for themselves and their families.

The contents of the newspaper reflect this trend and give us a broad view of just how big the health business really is.

Whether you focus on mental health, physical conditioning, good nutrition, recovery from substance abuse or medical check-ups, the health business is booming!

Student Name

- Collect advertisements from your newspaper that reflect the health trend in drugs, vitamins, foods and special programs to serve people who are seeking good health.
- Collect news stories, features and editorials that reflect the health trend in our country.
- Collect comic strips that reflect the health trend in our country.
- Use your collection of health trend references from the newspaper to write a brief editorial in the space provided below. Your editorial should be an informational one which sets forth what you have learned about the state of health in our nation from your analysis of the newspaper.

FOCUS:
Health/Nutrition

Activity # 20

Under The Weather



When it comes to our health and the way we feel, even the weather may have negative or positive effects.

Whether high winds carry pollen to those who have allergic reactions or sunny summer weather brings sunburn, the weather can have a definite impact on our health.

Newspaper weather reports help us plan our day. Many reports provide us with pollen counts or smog alerts in certain areas. Not only does the weather section give readers information, it also provides a service for readers who want to make the best of the weather!

Student Name

- Describe three weather conditions below that you think may have a negative effect on a person's health.

- Use your newspaper's weather page to find several places in the world or in our nation, where one of the above described weather conditions is expected to occur. List each place and describe the forecast.

Location

Weather Forecast

_____	_____
_____	_____
_____	_____
_____	_____

- Write a set of precautions that a person living in one of the above areas should take in order to avoid any negative effects the weather might have on their health.



Safety Precautions

FOCUS:
Health/Nutrition

Activity # 21

Good Hygiene Profile



Good health is often dependent on good hygiene. Personal hygiene or cleanliness is essential for good health. Failure to have good dental hygiene, for example, may have serious effects on one's health.

Good hygiene in the workplace is especially essential for people who work with other people (teachers, students, child care workers), for people who work in jobs where food is packaged or handled in some way, or for people who work in areas that require a sterile environment.

Examples of jobs where good hygiene is a must can easily be found by skimming the pages of the newspaper.

Student Name

- Use the newspaper to find examples of people who work at jobs that probably require good personal hygiene. You may find your examples in photos, references in news stories or retail and classified ads.
- After you have found one example that you want to focus on, clip and paste or attach the newspaper reference to this page.
- Using this example, write a daily hygiene regimen for this person or a person who works at this job. Use the space below to create a daily plan this person should follow.

A Daily Plan For Good Hygiene...



FOCUS:
Health/Nutrition

Activity # 22

Help Me Out Here



No matter what the health problem or concern may be, there are many agencies and businesses that can aid people who are wanting help.

Newspapers often contain special directories that provide telephone numbers or addresses of businesses and agencies which provide health services. Sometimes news stories, features or editorials may provide this type of information as well. Frequently, this information can also be found in advertising.

Student Name

- Use your newspaper to categorize below the local agencies and businesses that can help with substance abuse, nutrition, general health problems and fitness.

State And Local Agencies



Hospitals And Health Centers



Other Businesses

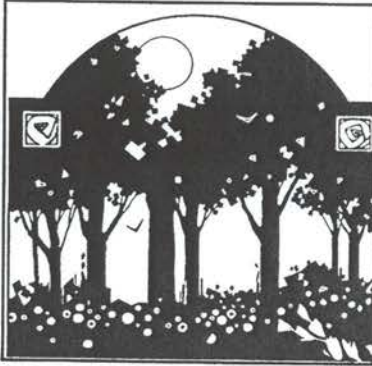


Take the science challenge...Can you think of any medical problems that you might be able to solve by using agencies/businesses in all three categories above? If so, what do you think are the factors that help people decide whom to use to help with their problem?

FOCUS:
The Environment

Activity # 23

Cause And Effect



Pollution is increasing at an alarming rate in the world.

Waste from products which help create a world of convenience for us is creating havoc for our environment. For example, the pollution of our water source affects fish as well as our drinking water.

Air pollution is possibly eating away the protective atmosphere of our world.

Is convenience worth the devastation?

Student Name

- Use your newspaper to select an article which identifies a specific pollution problem.
- Clip the article that you have selected and attach it to this activity page.
- Underline the words which reveal what the causes of the pollution problem may be. If there are other reasons for the cause of this pollution not mentioned in the article, note these below.

- Circle the words in the article which tell what effect this pollution has had.
- Outline below several steps that may be taken to solve this pollution problem. Include steps that individuals or that companies/business/industry must take.

Take the science challenge... Write an editorial or a letter to the editor in which you cite specific references to the article you have clipped. Take a position on this specific occurrence and recommend the steps that should be taken to offset this problem. Make your editorial as persuasive as possible.

FOCUS:
The Environment

Activity # 24

Comic Strip Environments



We often think of environment in terms of real life situations.

Since comic strips often relate to real life situations, the background or environmental surroundings of comic strips also may relate to reality.

Comic strips may utilize one basic environmental type or may contain a combination of environmental types. Some examples of environmental types are desert regions, mountainous regions, forests or oceans.

Student Name

- Identify several environmental types found in the comic strips. List the types that you find in the chart below by listing the environmental type and the name of the strip in the chart below.

Environmental Type	Comic Strip Title
_____	_____
_____	_____
_____	_____
_____	_____

- For each environmental type identified, record in the space provided the factors that are typical of the environment that may have been omitted in the comic strip.

Take the science challenge...Are comic strip environmental types presented in their true form or are they exaggerated? Explain how they are exaggerated.

FOCUS:
The Environment

Activity # 25

Environmental Alert



Have you ever considered the environmental dangers in your own local area or region?

Newspaper stories often chronicle serious environmental situations that exist in an area far from our home location. This sometimes provides readers with a false sense of security that there are no immediate dangers for them, which fuels the attitude that the problem and its solutions can be delayed.

By reading your newspaper's stories and editorials carefully, you may realize that a problem that exists somewhere else may be a very real problem in your own area.

Student Name

- Compile an environmental journal by finding newspaper articles about different types of pollution or environmental problems and arranging them in categories you have established. Some categories that you may want to consider are noise pollution, solid waste, air pollution, radiation or water pollution.
- After several weeks of collecting and placing newspaper articles in your journal, review the contents. On the activity sheet below, identify local areas that may be environmentally unhealthy or hazardous.

Local Environmental Problems/Hazards

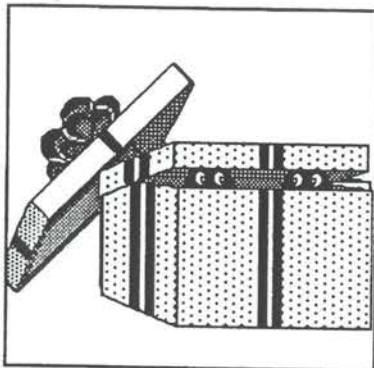


Take the science challenge... Write a plan that suggests a series of actions that a school group or organization could take to solve any one of the local environmental hazards above. Write your plan so that it would be suitable to present to school administration and other community groups for action. Include a timeline which outlines what actions must occur, when they should occur and who should be responsible for each action.

FOCUS:
The Environment

Activity # 26

Package Pollution



Disposing of solid waste is one of the most visible environmental problems making headlines today.

Recycling is receiving a great deal more attention than it did five or ten years ago. Some advocates of cleaning up the solid waste problems indicate that some of the problem can be taken care of before the potential waste reaches the consumer.

Responsible packaging of food products is one major way that waste can be eliminated before it becomes a reality.

It is safe to assume that we may witness more headlines about new technology that has produced biodegradable materials for packaging and a reduced amount of paper and plastics being used in packaging.

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Student Name

- Use your newspaper advertising to analyze product packaging. Select one product that you believe could be packaged in a better way (environmentally responsible).
- Clip and paste the picture of the product below.

- Design a better product package for the item you pasted above. Describe your idea or illustrate the idea below. Include briefly what objections there might be to your idea, if any, and how you would answer to those objections.

Take the science challenge... Can you find examples of six items advertised in the newspaper that are packaged in a way that is not harmful to the environment? For each item, explain whether you think the packaging is more or less expensive than if it were packaged in a manner that ignored the environment.

FOCUS:
The Environment

Activity # 27

Energy Crisis!



With the concern for the environment comes a concern about our energy resources.

In the recent past, energy shortages have been experienced to some degree in various areas of our nation. We often cope with shortages, for example, by cutting back on the use of certain appliances at a certain time of day in the summer or by limiting the amount of time that a vehicle is in use.

What would happen if there were a severe energy crisis that gripped the nation today?

Student Name

- Locate a story on a prominent person in your community. This may be in the business section of your newspaper, in feature stories or in news stories.
- Analyze the lifestyle of the person you have selected. Create a description of their lifestyle (what they do in an average day) in the space below.

Lifestyle Of A Community Personality

- Repeat the same kind of study on your own lifestyle and explain it in the space provided.

Your Own Lifestyle

- Analyze how a severe energy shortage might likely affect the lifestyle of the community personality you chose. How would the same crisis affect your life? Whom do you think would have the greatest problems dealing with a severe, ongoing energy crisis? Explain in the space below.

FOCUS:
The Environment

Activity # 28

Changing The Ecology



Changes in the ecology or natural balance of an area frequently occur when land is developed for commercial purposes. The development of a man-made lake or the development of a corporate office center of several hundred acres may make drastic changes in the watershed and natural wildlife of a suburban area.

The business pages of the newspaper may contain information about plans or proposals that might affect the ecology of a particular area. Frequently, zoning authorities who once approved use of land based on man's need and the good of the economy must now consider the desires of those who are concerned for the environment.

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Student Name _____

- Use the business pages or business stories from elsewhere in the newspaper to find two examples of development that might cause change in the ecology of an area.
- For each situation, list the advantages the development may have for the economy of the area.

Economic Advantages Of Proposed Land-Use Changes	
Development #1	Development #2

- For each situation, list the disadvantages or negative effects this type of development may have on the ecology of the area.



Negative Effects On the Ecology Of The Area	
Development #1	Development #2

Take the science challenge... Use an editorial format (or use an editorial cartoon) to present your views on land-use changes. Use an extra sheet of paper or the back of this paper for your work.

The Environment

Activity # 29

Precarious Products



A variety of items pictured or advertised in the newspaper or mentioned in newspaper stories may be things that have come under recent scrutiny from those who are concerned about the environment.

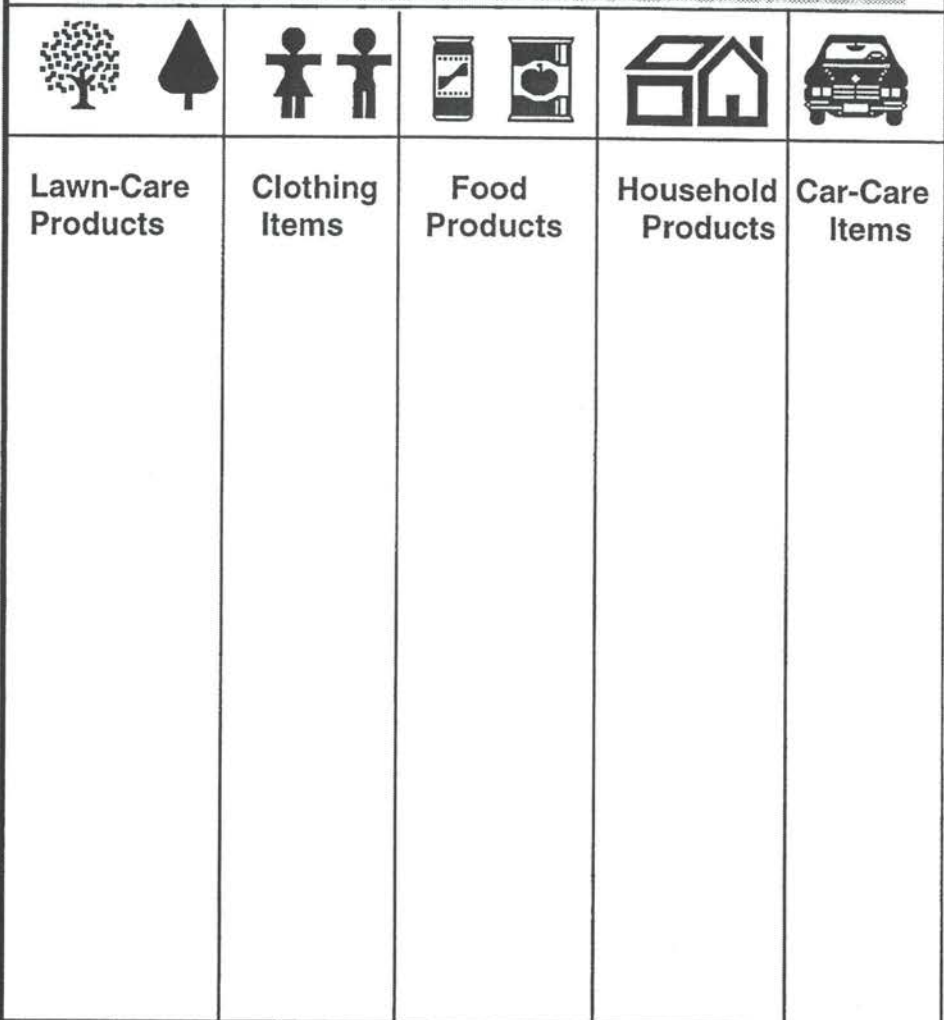
Since a growing number of people are becoming environmentally concerned, many products are now advertised as being safer for the environment.

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Student Name

- Select pictures or names of products from newspaper advertising and stories which may be harmful to the environment. Write the names of the items you find mentioned in the proper categories below.

Products That May Be Harmful To Environment



- List any items that are *advertised* as being environmentally better than others. Use your newspaper to locate these items.

Take the science challenge... Identify at least one environmentally healthy alternative for each item you identified in the chart above. Discuss why, if alternatives are available, there are not laws requiring the use of the most environmentally healthy products.

FOCUS:
The Environment

Activity # 30

Ecological Balance



Ecology is the relationship between living and non-living things in their total environment. If you were to observe a person who is working in the garden, watering plants, tilling the soil and stopping for a break to take a drink of water, you would be witness to an ecological relationship.

Frequently, stories in the newspaper report on the abuse of ecology—for instance, industries poisoning water by releasing toxic wastes from factories into a nearby river.

Special government agencies are charged with the responsibility to act as watchdogs over the environment and to help execute the laws that have been passed to protect the relationships between man and nature.

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Student Name

- Use your newspaper to find at least five pictures or stories that show or tell about a situation in which the ecology may be harmed.
- Below, write a description of each of the situations you found. For each, identify what part of the ecology may be harmed.

**Five Possible Abuses Of Ecology
Mentioned In The Newspaper**

1. _____
2. _____
3. _____
4. _____
5. _____

- For each of these situations found in the newspaper and listed above, identify the governmental agency that is, or should be, involved in correcting the situation.

**Government Agencies Which May Take Action
In Each Of The Situations Above**

1. _____
2. _____
3. _____
4. _____
5. _____

Take the science challenge...What role can the government play in correcting the situations outlined above? Do some research to find out what kinds of laws or ordinances exist that pertain to the situations above and what kind of punishment may occur as a result of breaking or ignoring these laws.

FOCUS:
The Environment

Activity # 31

Room To Breathe



Air quality can be influenced by man or nature. For example, man may influence air quality by polluting the air. Weather conditions also may have impact on air quality.

Any fluctuation in air quality can be very bothersome to people, especially those with asthma or severe allergies.

The newspaper frequently reports on air quality as a service to those who are especially sensitive to changes in the status of the quality of the air.

Student Name

- Collect air quality reports from the newspaper's weather page, index or related stories.
- Explain below what the report that you found says about the air quality.

Local Air Report

- In the spaces below, project the roles that both man and nature may play in creation of the present air quality.



**Man's
Role**



**Nature's
Role**

Take the science challenge...How do people with severe reactions to changes in the air quality cope with the situation, yet continue to live fairly normal lives?

FOCUS:
The Environment

Activity # 32

A Futuristic Ecology



Futuristic literature and art usually establish an ecology which serves as a realistic background or setting for the work.

Science fiction books that you have read or movies that you have seen likely have established a futuristic ecology. *Star Wars*, for example, established numerous settings in its trilogy. The land, the plants, resources, characters and how these factors interacted with each other established a very realistic setting.

Newspaper comic strips offer a cartoonist an opportunity to create with few limitations. Unusual settings, characters and plots can be the result of focusing on futuristic ecology.

Student Name

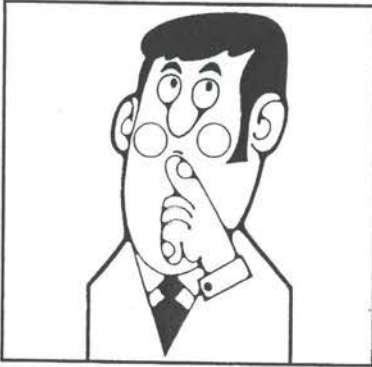
- Study the comic strips in your newspaper for a few days to become familiar with the format and the techniques used to communicate messages in most comic strips.
- Use another sheet of paper or construction paper to design a comic strip with a futuristic ecology.
- Before beginning, think about the setting, characters, plot that you may use and write your plan below. List also some of the jobs that may be available, games that people play and daily activities that may surface in your futuristic comic strip. Design your comic strip so that it could be published at least 100 years in the future.

Plan For Futuristic Ecology

FOCUS:
The Environment

Activity # 33

Recycling The Town



Recycling efforts are important throughout the world. This includes our own community, where efforts to recycle increase with the awareness of environmental problems and the need to address these problems.

The newspaper is one of the best resources for finding out what efforts are being made to solve environmental problems through recycling.

Student Name

- Use the newspaper to find articles and/or information that readers may find helpful in planning ways to recycle waste.
- Note below any information you find about your local government's regulations about recycling. What are the requirements? If your community is not yet recycling, look for proposals that are being made in your community to start recycling.

Local Governmental Requirements About Recycling

- Use your newspaper to find five items that might likely be used one time before being thrown in the trash. List these items in the chart below.
- Also in the chart below, note at least one way each item could be used a second time before it is disposed of. Be creative!

From Trash	To Treasure

FOCUS:
The Environment

Activity # 34

Face The Music



The present problems of the environment did not occur overnight. Years of environmental abuse have slowly grown into critical situations. Our nation and world must now deal with the environmental crisis.

Newspapers frequently report on certain types of industries that continue to operate in detriment to the environment. Sometimes these news stories focus on a specific industry or business that has long been an important part of the economy of a community.

Issues like these (economy versus the environment) often result in heated controversy within a community.

Student Name

- Use your newspaper to find an article about an industry in your town that has been identified as a contributor to pollution of some type.
- Clip the article you find and attach it to this activity page.
- In the space below, list some of the pros and cons of this industry's existence in your community. The *cons* might be a list of some of the environmental hazards created by this type of industry. The *pros* are likely to be factors regarding the community's economy or what good this industry does for the community.

Industry Pros

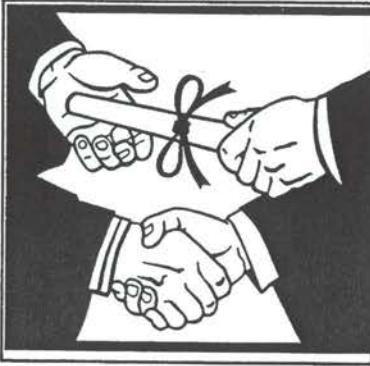
Industry Cons

Take the science challenge... Can you develop a solution to the problem this industry (and your community) faces? Work in groups to suggest a plan of action and a solution to present to the class.

FOCUS:
The Environment

Activity # 35

Making The Grade



As is typical of many issues and problems we face, we often can easily find fault or place blame for the creation of a problem.

What about the positive side of the environmental issue? Are there agencies, businesses, groups and individuals in your community who have taken positive action to preserve and protect the environment?

One way to find out about the good things your community is doing for the environment is to read the newspaper. Feature stories and personality profiles often single out some excellent examples of the positive actions being taken in your community on behalf of the environment.

Student Name

- Use your newspaper as a resource to develop in the chart below a listing of environmental positives in your community. You may want to include people and what the result of their actions are. You may want to include the names of parks and recreational districts and how these are shining examples of environmental preservation. The resulting list should be your way of *showcasing* the people and places in your community that should receive an A+ for the environment.

Report Card For The Environment...
Those People and Places Receiving An A+

<u>Name of Person/Place</u>	<u>Grader's Comments</u>

FOCUS:
Earth Science

Activity # 36

It's A Natural!



Our everyday lives revolve around the natural resources of our world. From the slice of toast we eat for breakfast, to the drive to school in a car or bus, to the books we use in school, to the water we drink, our very lives depend on natural resources of this earth.

Many of the natural resources we use daily come from our own communities. For other resources, we must depend on trade among states and nations.

Evidence of the natural resources of our community and their importance to our existence and lifestyles can easily be found in the newspaper.

Student Name

- Skim your newspaper and collect news articles that provide information about natural resources used in your community.
- List five natural resources that you use on a daily basis below. Indicate where these natural resources likely come from—your local community or another state or country.

Natural Resource Identified

Location

Take the science challenge... Describe a natural resource found in your community. Write a brief news column about this resource, describing it and its importance to the people in your community and your community's economy. Use the back of this activity page for your work.

FOCUS:
Earth Science

Activity # 37

Put A Lid On It!



An important part of our knowledge of natural resources is to learn not only what they are and what they do for us, but how to protect them.

Conservation of our natural resources has been important to us for many years. Most states have highly organized departments of conservation that research conservation techniques and provide information to citizens about how to conserve natural resources of varying types.

The newspaper is an informational source you can use to find out how to protect and conserve natural resources.

Student Name

- Use advertising and photos in your newspaper to find at least 15 items powered by various sources of energy.
- Use the classification system below to list the items you found in your search of the newspaper. Include for each item one conservation technique that should be used when the item is used.

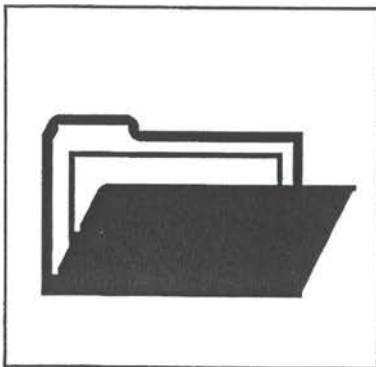
Picture/Description Of Item	Type Of Power Used	Conservation Plan

Take the science challenge...Develop a chart which projects possible power shortages in your community in the next ten years. Include in your chart the possible/probable causes of the shortages, the effects that the shortages could have on individuals and what actions are being taken (or should be taken) by the community and businesses in your area to prevent or offset the impact of such shortages. Include for each shortage an action that you and/or your family could take right now.

FOCUS:
Earth Science

Activity # 38

Reading Roundup



An important action that citizens can take in preservation of the earth and its resources is to keep informed of the status of the resource and any limitations that we may be asked to accept. Citizens should plan for alternatives if a limited resource is no longer available.

The newspaper may tell us of shortages of resources and what actions local governments or agencies are urging. For example, during the summer, water supplies may be depleted due to lack of rainfall or increased consumer usage. The newspaper will inform us of shortages like this and how we may comply with the request to conserve our supply.

Student Name

- Science is a part of many newspaper stories. Take part in putting together a bulletin board which reflects this fact.
- Select one story from the newspaper which you would classify as a "science" story. Mount the story on construction paper in preparation for placement on your classroom *Science in the News* bulletin board.
- Identify in the remaining space on the construction paper the 5 W's and H of the news story you selected. Answer the questions who, what, when and where—the basic facts about the news story. If available, tell why and how this current event came about. Use the space below to make notes before you create your bulletin board contribution.

A large, empty rectangular box with a thick black border, intended for students to write their answers to the 5 W's and H of a news story and to make notes for their bulletin board contribution.

FOCUS:
Earth Science

Activity # 39

Comin' Up Roses



Special gardening columns and advertising in the newspaper are useful to a person who is planning a flower garden.

Due to different tastes and economic concerns, people may choose from a colorful array of flowers to plant in their gardens. Annuals are plants that live for only one growing season. The life of a biennial extends through two growing seasons. Perennials live more than two seasons and often for many years. Many people select flowers and plants from each of these categories so that not all of their plants will have to be replaced each season, yet they'll have the opportunity to enjoy gardening and trying new plants and flowers each season.

Student Name

- Use your newspaper's advertisements and gardening columns to differentiate between annuals, biennials and perennials.
- In the chart below, classify the flowers and plants you find.

Flower Name	√Annual	√Biennial	√Perennial

- Use the flowers/plants in the chart above to plan a flower garden, utilizing a mixture of annuals, biennials and perennials. Plan an attractive flower garden for a space that is four feet wide and 15 feet long. (You may need to research the height of the plants, spacing, etc.) Use the space on the back of this page to draw a diagram of your plan.

Take the science challenge...What are other considerations to make when planning a flower garden?

FOCUS:
Earth Science

Activity # 40

Watch Your Peas & Q's!



There are many reasons people might consider growing their own garden.

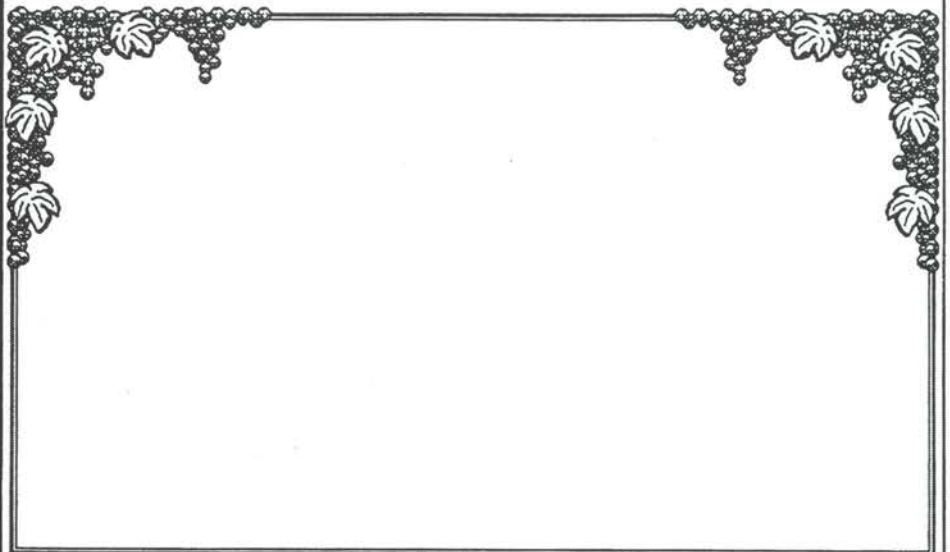
Cost is frequently the reason, though sometimes it can be more expensive to grow your own fruits and vegetables!

Pesticides have often been a factor in people's decisions to grow their own food. Poisons sprayed on commercial fruits and vegetables are of great concern to many consumers.

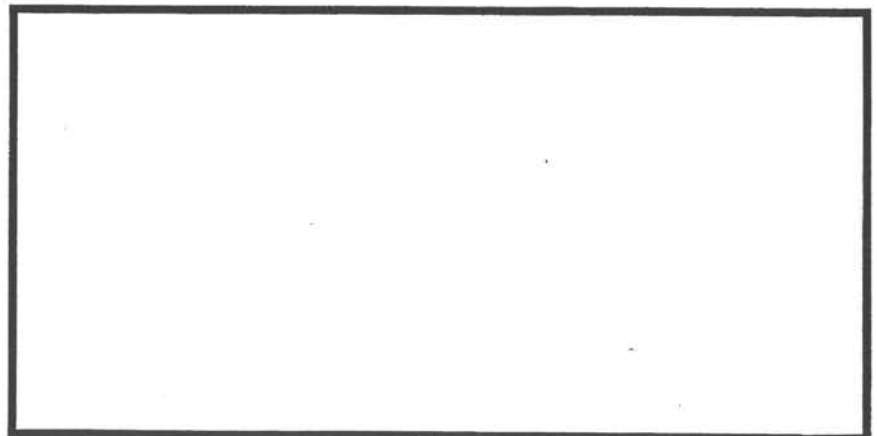
The newspaper provides much information on the planting, growing and preparation of foods. Newspaper advertising can be very helpful to people who want to purchase home-grown foods, as well.

Student Name

- Examine the newspaper, especially the classified section, to locate and list materials necessary to grow a vegetable garden.
- Choose your own vegetables to plant by using the advertising and the gardening columns in your newspaper as a guide. Choose at least six different varieties of vegetables.
- Use the space below to design a growth chart from planting to germination to maturation. (Some of this information may be available in the newspaper, or you may have to do some additional research.)



- Examine and research special cultivation needs of each vegetable.
- Use the space provided below to write a classified ad to "sell" your produce. Use a writing style similar to that found in your newspaper's classified advertising section.



FOCUS:
Earth Science

Activity # 41

Biome, Sweet Biome



A biome is a major ecological community of plants and animals. Biomes are large geographical regions identified mainly by their climates and vegetations. Some examples are tropical forests, desert, tundra, grassland, coniferous forests, and mixed hardwood coniferous forests.

Skimming through the newspaper, you are likely to see examples of many different types of biomes in the background of photos, advertising and comics. Travel sections often contain feature stories about areas which are biomes much different than the one in which we live.

Student Name

- Use the newspaper travel section, advertising, photos and comic strips to identify different biomes.
- List the biomes you find below and accompany each with a list of characteristics typical of that particular biome.

Biomes	Characteristics Of The Biome

Take the science challenge... Create a workable biome of six species of plants and or animals mentioned in the newspaper. Relocate these species into five new and different locations and predict what changes might occur for each species in each new biome.

FOCUS:
Earth Science

Activity # 42

Give Me Shelter



The newspaper often features stories about local zoos or game reserves. These articles often describe efforts that are made to create a habitat for wildlife.

Individuals often plan lawns and gardens that will attract certain types of wildlife. You can use the newspaper for information which will help you plan a miniature wildlife refuge. The lawn and garden ads often feature plants, shrubs and feeders that will attract certain types of wildlife.

Student Name

- Use the classified or nursery advertisements found in your newspaper and your own list of plants (created in the chart below) to construct your own wildlife refuge.
- Wildlife requires four basic elements to survive—food, water, cover as protection from natural enemies and the elements and areas where they can reproduce and bear their young in safety. Draw your plan on graph paper to scale. Make your plan 100 by 120 feet (typical backyard size in many areas). Avoid uniformity in your final creation. The greatest variety in wildlife species is found where one habitat type blends into another.

List Of Plants, Trees, Shrubs To Consider Using In Your Wildlife Refuge

Low Shrubs

Tall Shrubs

Small Trees

**Large Trees
(deciduous)**

**Large Trees
(evergreen)**

Other Plants

(Use secondary and tertiary research to select the plants in the list above most appropriate for your area.)

FOCUS:
Earth Science

Activity # 43

Wildlife Management



Newspaper sports pages often contain feature stories and other information about hunting and sports restrictions. These limitations are often necessary to protect wildlife in certain areas.

Hunting and fishing are leisure time activities that many of us enjoy. However, if we want the continued opportunity to hunt and/or fish, we must respect the laws and regulations of these sports.

Student Name

- Use the newspaper sports pages to locate articles and information about hunting or fishing in your area.
- List below some of the restrictions that you find in the newspaper and the restrictions that you may be aware of due to past experiences.

**Local Restrictions Governing
Hunting And Fishing**

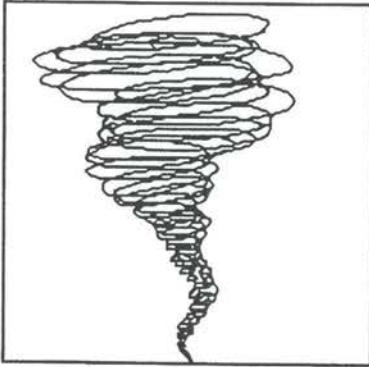
- Identify the local agencies which are responsible for enacting and enforcing laws which protect and preserve the wildlife in your area. Explain the roles each agency plays.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

FOCUS:
Earth Science

Activity # 44

Wreaking Havoc

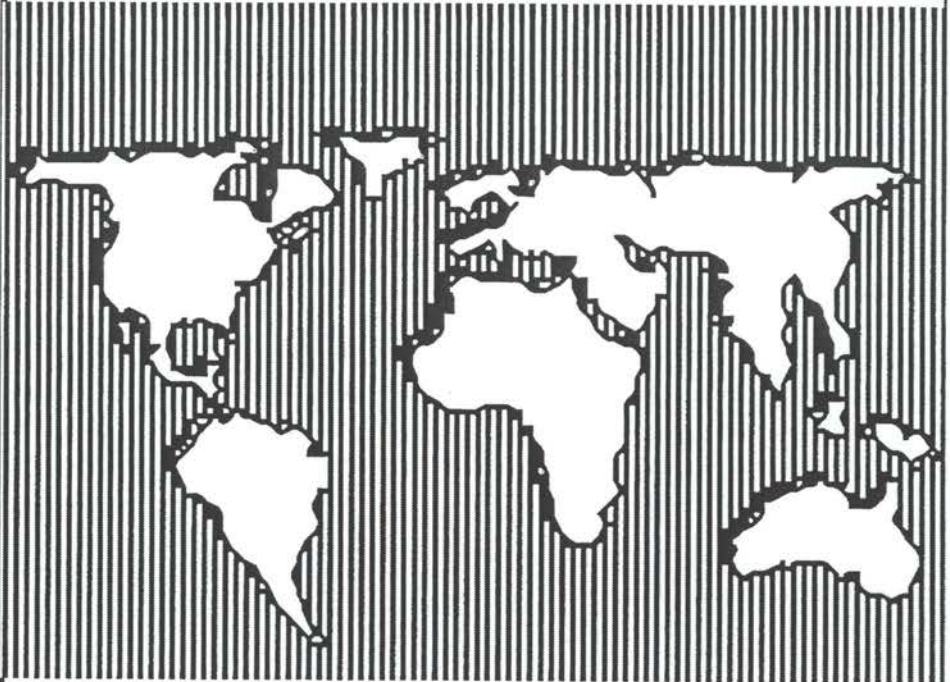


The weather is a study of science that affects our lives daily. Our economy, our health and our daily plans rely on the weather to some extent. Friend or foe, the weather is a topic that people readily take notice of and discuss freely.

The newspaper chronicles natural disasters, such as tornadoes, hurricanes, floods and earthquakes throughout the world. Many of these disasters occur only in certain parts of the world, but their occurrence can have impact on lives of those who have not experienced firsthand the drama and tragedy accompanying these events.

Student Name

- Read your newspaper for a two or three-week period to track reports of earthquakes, tornadoes, hurricanes, floods and drought.
- Identify the disaster and the place where each disaster occurred with a legend you design. Use the map below to record your findings.



Legend

Take the science challenge... Choose one of the disasters that you recorded above which did *not* happen in your area. Make a list of some of the ways in which you or other people in your community would be affected by this particular kind of disaster.

FOCUS:
Earth Science

Activity # 45

Symbolic Significance



Weather symbols help us to interpret quickly a weather map that we see in the newspaper or on television. These symbols give us a mental image of sunny, cloudy or stormy weather. Symbols may also give us information about approaching warm or cold fronts or weather which will require our attention in planning for our daily life.

Legends in different newspapers may vary somewhat, but many of the symbols can be easily recognized and interpreted because it is their role to communicate about the weather.

Student Name

- Locate the weather section in your local newspaper. Clip the weather map or symbols from the weather page and paste in the space below or on the back of this activity page.
- For each symbol used on the map or in the legend, write a brief explanation of the symbol and describe the meteorological conditions that create this type of weather.

Take the science challenge... Compose a paragraph or create an illustration or cartoon using the weather as the main idea.

Activity # 46

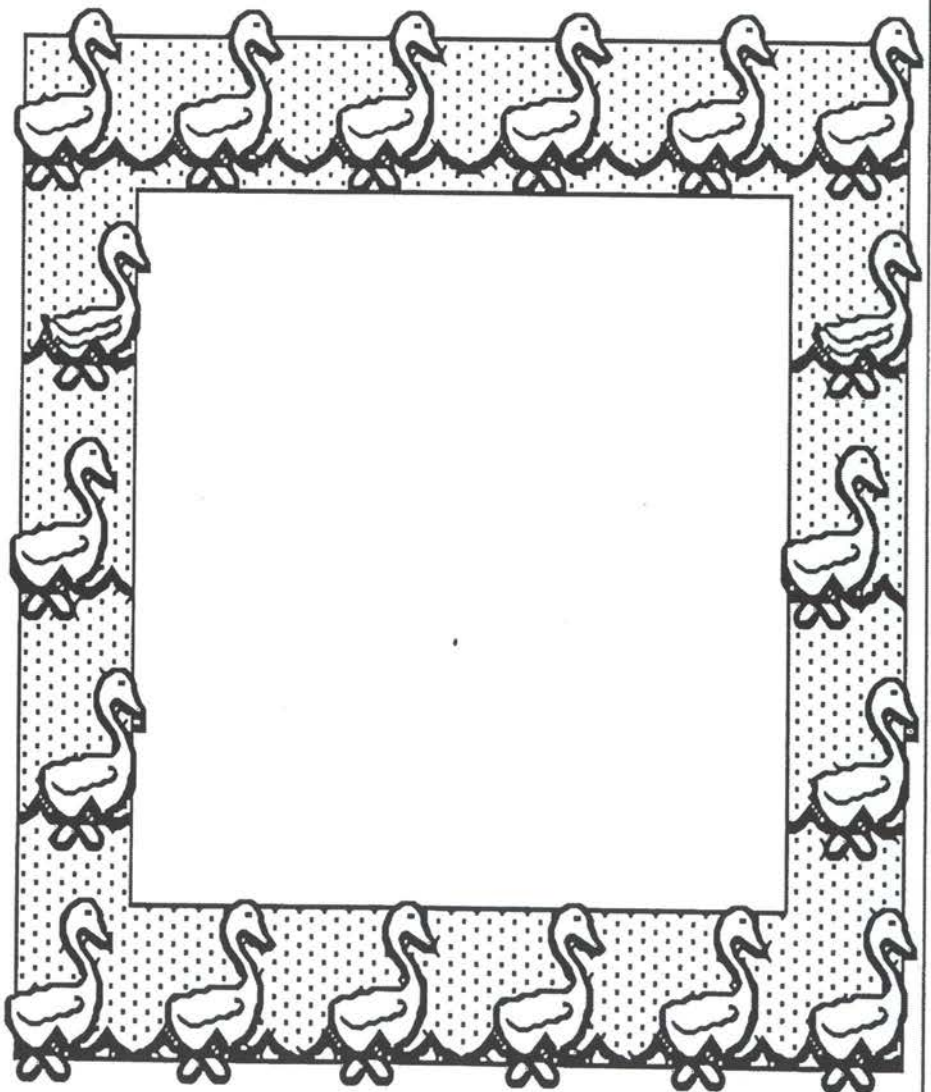
Chart The Weather



Weather pages in the newspaper often refer to records that are kept from year to year. This type of record keeping is important in providing a point of reference to study weather patterns for certain areas. These records are used to analyze differences in weather from year to year and to measure gradual changes in weather patterns world-wide.

The newspaper often provides information about temperatures, precipitation and weather conditions typical for certain times of the year.

- Keep a weather chart for seven days for your area. On the chart, record the date, temperature highs and lows, precipitation, barometric pressure, humidity, pollen count, etc.
- Use a large sheet of construction paper to design your chart.
- After the seven days are complete, write a news summary about the weather. Use the space below for your summary. Include information in your summary about the greatest temperature differences, the smallest temperature differences, record-breaking temperatures or precipitation, etc.



FOCUS:
Earth Science

Activity # 47

Not Another Rainout!



The weather can have profound impact on our daily activities, our behavior and our health.

The newspaper contains not only detailed information about the weather, but also listings of many events that could be affected by the weather.

Correlating activities with the weather may not be difficult if a person uses the newspaper as a resource.

Student Name

- Scan the sports pages of your newspaper and select six outdoor events scheduled in different areas across the nation.
- List the events, the dates and the times they are scheduled to occur below.

Sports Schedule



<i>Event</i>	<i>Date</i>	<i>Time</i>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

- Locate the weather map in the newspaper and list the conditions forecast for each event. Write a statement to accompany each event listed that suggests how the weather may have impact on the event.

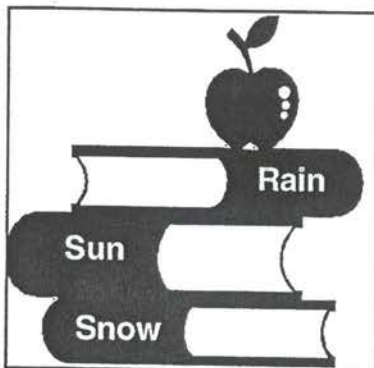
Weather Conditions

Impact On Event

FOCUS:
Earth Science

Activity # 48

Sunny And Smile-Filled



We all acknowledge that weather has impact on our moods, our behavior and our activities. How many of us realize the extent of the weather's influence on us over the period of one month?

Creation of a journal for the purpose of recording our plans and activities and any changes in these due to the weather is one way to discover how we change when the weather changes.

The newspaper records weather information on a daily basis to provide us a written record of weather events and forecasts. The newspaper can be used as a journal to refer to on many topics, including the weather.

Student Name

- Keep a weather journal for 30 days. You can discover through this activity and later analysis of your records just how much the weather has had impact on you during a month's time.

Weather Journal Contents

- * Using a separate notebook, record at the top of each page the date for a one-month period.
- * Clip a brief description of the day's weather from the newspaper and attach to each page.
- * Write on each page your plans for the next month—if you have a schedule of ballgames to be played, outings with the family or friends, etc.
- * On each day, make a journal entry by writing a paragraph about the weather conditions of the day, what type of behavior you exhibited and what your mood was.
- * Include how any plans for your day were changed due to the weather.

After your journal is completed, review each day's entry, noting below...

- Two examples where your behavior or activities were drastically affected by the weather...

- Five examples where minor modifications were made in your schedule, due to the weather...

- Describe any mood changes you experienced due to the weather.

FOCUS:
Earth Science

Activity # 49

Clouds In Your Future

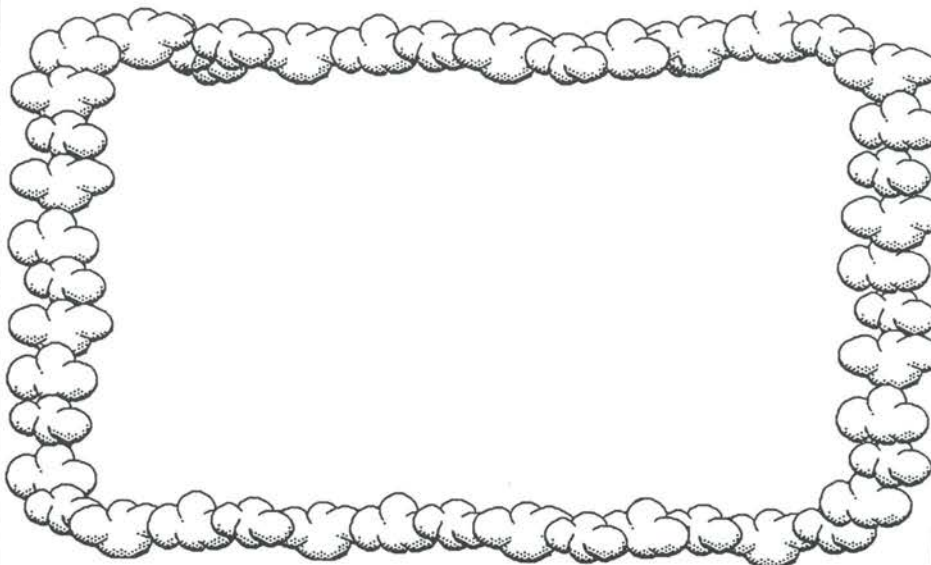


We have all heard that weather can have tremendous impact on jobs and business throughout the country and the rest of the world. Beyond our ideas of construction being delayed due to torrential rains or agricultural losses due to adverse weather conditions, there are many other businesses and individuals that we may not realize can be affected by weather extremes.

The futures market is one example. Futures markets influence the pricing for many raw materials used by manufacturers. The raw materials are used for food processing, building and banking. Some futures can be influenced by weather conditions.

Student Name

- Create below a fairly typical description of an extreme weather condition that might take place in a specific part of the country. You may create this situation yourself or use an actual condition reported in your newspaper.



- Using the description created above, list the types of business and specific jobs that could be influenced by this weather extreme. By each item, describe briefly what the impact on the business or job could be.

Jobs/Businesses

Impact

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Take the science challenge... Analyze the effect of the weather on futures pricing. Collect weather information from the newspaper over a one-week period. At the same time, collect futures pricing on one commodity of your choice, e.g., soybeans, wheat, pork bellies, cotton. Does the weather seem influential on the futures pricing for your selected commodity? Explain.

FOCUS:
Careers/Technology

Activity # 50

Professional Muscle



Some people depend upon their muscular systems on the job much more than other people in other lines of work. Professional athletes, dancers or performers must rely on certain muscle development in order for their careers to be successful.

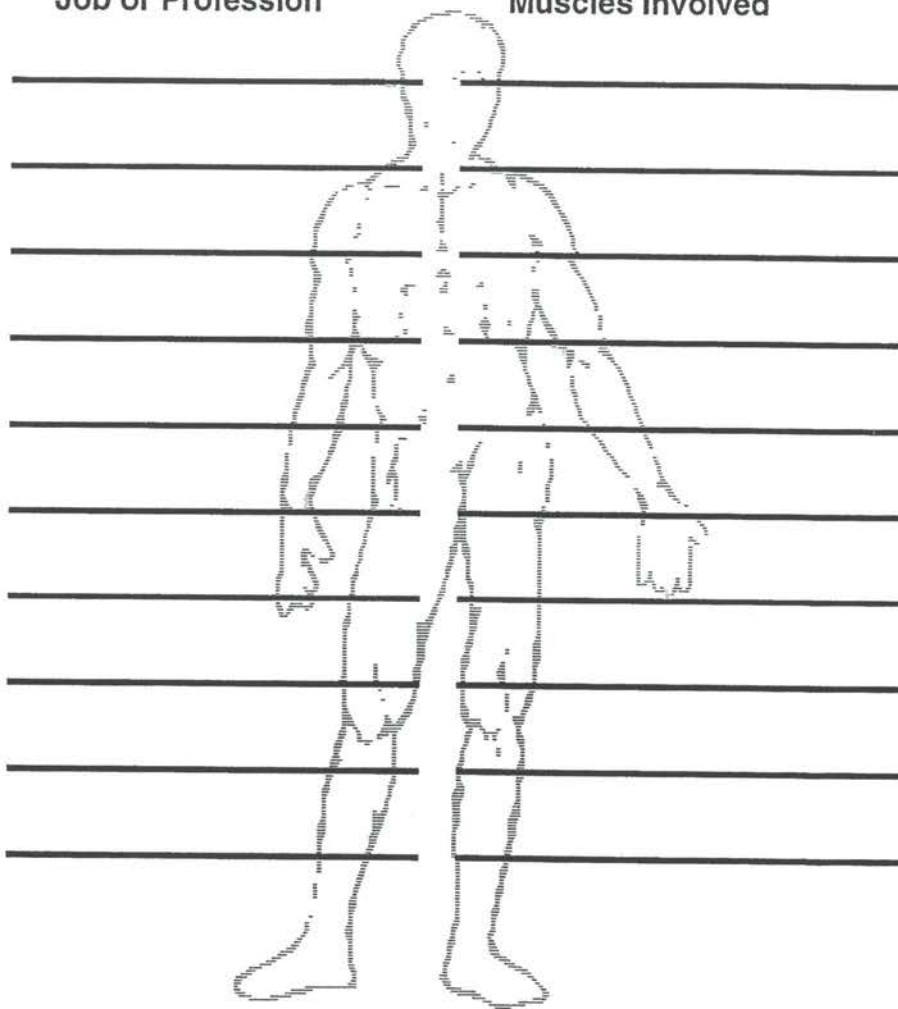
Likewise, there are many other workers and professionals who must have good muscle tone in order to succeed on their jobs. Construction, farming and other jobs requiring hard labor depend upon healthy bodies with good muscle tone in order to do the job well.

Student Name

- Use your newspaper to locate 10 examples of different jobs or professions which would require some form of muscle tone. Use news stories, photos, sports pages, the business section, feature stories or comics. List the examples you find below.
- By each example, identify the muscles which would be most important in successful job performance.

Job or Profession

Muscles Involved



Take the science challenge... Can you recommend exercises which will help tone the muscles identified in the activity above?

FOCUS:
Careers/Technology

Activity # 51

A Doctor In The House?



Science-related careers and jobs are numerous. Evidence of this can be found throughout the newspaper, not just in the classified advertising.

Often, science-related jobs are camouflaged by the title of the job. Many of these jobs require years of education and training, while others can require a brief period of on-the-job training.

If you have interest in science and would like to explore careers that relate to your interest, you can use the newspaper to identify careers which go beyond those we typically think of when science is involved.

Student Name

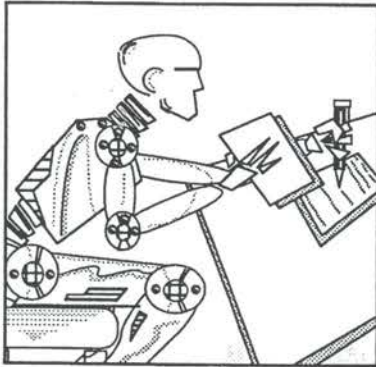
- Use your newspaper to locate some of the jobs that are science-related and are being performed in your own community. Avoid using the classified ads. Rely, instead, on news photos, clues from news stories, advertising and profiles in the business section.
- Complete the job chart below, using the jobs or careers that you have identified. You may need to do some additional research to complete all sections of the chart.

Career/Job	Education	Yrs. Exp.	Salary

Take the science challenge... Construct a job survey to use in interviewing people with science-related jobs. Interview 3-5 people and report your results in a feature story.

FOCUS:
Careers/Technology

Activity # 52
***Help Wanted...Humans
Need Not Apply***



In the past 100 years, the job market has undergone remarkable changes. Many of the jobs advertised in newspapers of past years are now being done by machine.

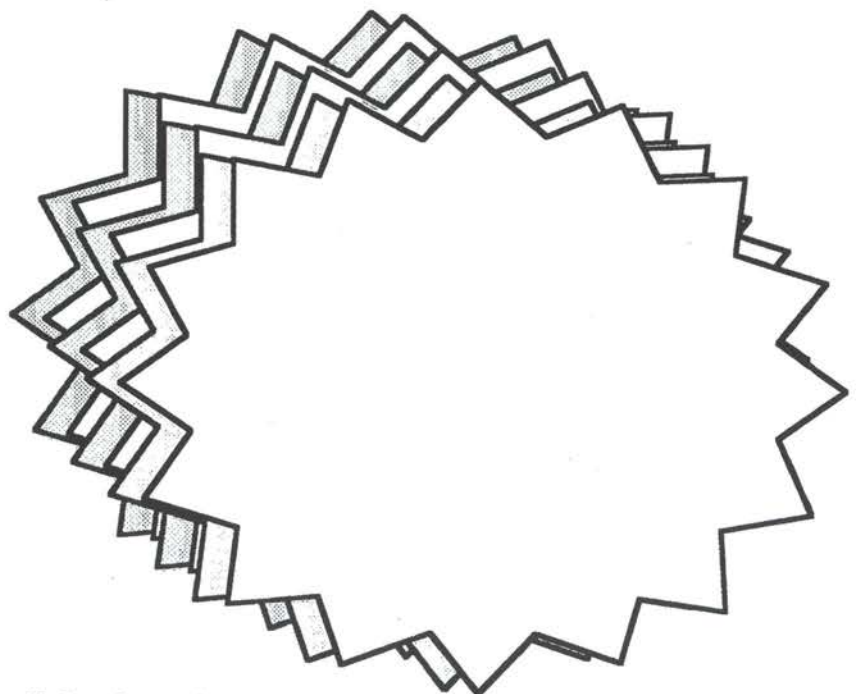
Technology has replaced with machines some jobs performed by people. Technology has also created many new positions for people to fill in the job market. Design, development, sales, advertising, operation and maintenance of machines and high-tech products have created many new positions in science-related fields.

Can you imagine what changes in the job market may be reflected in classified advertising in the next 100 years?

Student Name

- Skim the newspaper to find a job done today by a human that you think could be done by machine or some high-tech creation. Clip the newspaper reference (words or picture) and paste below. Comment on your selection.

- Clip a help wanted ad from the classified advertising section. Draw an illustration of how you think this job will be done in 2050.

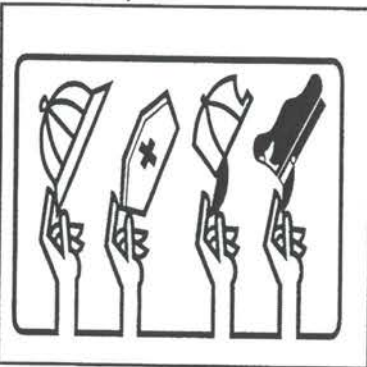


Take the science challenge...Computers now replace humans in many jobs. List as many examples as you can think of on the back of this activity sheet.

FOCUS:
Careers/Technology

Activity # 53

Service With A Smile



Throughout every community, service agencies spring into action to help their community in time of need.

Many of these agencies employ people who must have some science education or background in order to perform required duties. Some examples of these agencies are the American Cancer Society, public utility companies, county health departments, the Society for the Prevention of Cruelty to Animals, the Environmental Protection Agency and the American Red Cross.

Evidence of the work of these agencies and businesses can be seen throughout the newspaper.

Student Name

•Use your newspaper to find mention of local agencies that are likely to have some jobs available in the science field.

•List below the agencies you discovered in your search.

_____	_____
_____	_____
_____	_____
_____	_____

•Select one of the above agencies to research further. Based on your prior knowledge of this agency and your research, describe the mission and functions of this agency in your community. Include any references made in your newspaper to current work this group is doing in your community.

•Create a list of jobs within the agency you selected that require some knowledge of science. If possible, describe what kind of science background is necessary for each job.

Jobs Available

Science Background

FOCUS:
Careers/Technology

Activity # 54

High-Tech Business



Frequent reports in the newspaper are growing indication of the importance of science technology in our daily lives. Individuals are greatly affected by technology in the products produced as a result of research and development.

Business also benefits from the great strides in scientific research. The results go beyond the stock market to the growth of our local economies. Newspaper stories bear daily witness to the constant change in business and lifestyles created by scientific research and technology.

Student Name _____

- Use the business section of your newspaper to analyze the impact of science/technology on your community's businesses.
- List below in the categories provided, new products, new services and new businesses that you feel are a direct result of scientific technology. You may clip the pictures of new products from advertising or note the newspaper reference in your own words.

Products



Services



Businesses



- Identify the types of technology that have given birth to new business in your area and changed or diversified long-established businesses.

Type of Technology	New Business	Change In Business

FOCUS:
Careers/Technology

Activity # 55

Taking Stock In Technology



Advancements in science and technology are significant to our individual lives as well as the health and wealth of the economy.

It is interesting to note that many companies listed on the stock exchange are related to science and scientific research. Therefore, the stock market can affect many of the companies we depend on for cures, medications, herbicides, food production, advanced technological products, etc.

A study of the stock market listings in the newspaper may reveal changes dependent on new product development and scientific discoveries reported in the newspaper.

Student Name

- Create a mini-stock market listing of your own, based upon businesses whose success depends on scientific research, development and/or technology.
- Select at least five companies related to science. Record their market value on the graph below. Choose five other companies (not necessarily related to science): two which have a higher market value and three which have a lower value and record these.
- Follow these companies' stock prices for five weeks, recording their market value every Wednesday.
- On the last day, compare how the science-related companies changed in comparison to the other five companies you selected at random. Evaluate the changes that occurred and analyze why these changes came about.

		Week #					Amount Of Change
		1	2	3	4	5	
	1						
C	2						
O	3						
M	4						
P	5						
A	6						
N	7						
I	8						
E	9						
S	10						

FOCUS:
Careers/Technology

Activity # 56

Major Breakthrough!



Major scientific and technological discoveries are often reported in the news.

These breakthroughs may range from those in medicine which may bring about a cure for a particular disease, to those which create items that help us in business or everyday life.

Mechanical hearts, vaccines, powerful space telescopes and super computers are just a few of the products produced as a result of major breakthroughs in the area of science. In many ways, science technology helps to improve life and the quality of living.

Student Name

- Use your newspaper to locate a news item about a major discovery in the area of science that has or may result in a product that will in some way benefit mankind.
- Summarize the news item below, including an explanation of what discovery was made, what the result of this discovery may be and who was involved in the discovery.

News Summary

A large rectangular box for writing the news summary.

- Do some research to find out what technological advances made this discovery possible. Briefly explain below.
- Use the space below to explain how this discovery is likely to benefit mankind. If possible, can you identify any negative effects of a discovery of this nature?

Benefits To Mankind?

Negative Impact?

FOCUS:
Careers/Technology

Activity # 57

Continued Improvement



Scientific technology has made life a little easier for all of us. We live from day to day enjoying the many benefits of past scientific discovery and technology. We may be surprised how great a role science plays in what we thought were ordinary lives.

By reflecting on our lifestyle and skimming the newspaper to look for products that we think improve our quality of life, we may make some discoveries of our own about the role of science in our daily lives.

At the same time, products we use now may become obsolete with continued scientific research and technological development.

Student Name

- Using news articles and advertising in your newspaper, locate 10 different inventions currently used in your daily life.
- Identify each of these inventions in the chart below, noting where you found them pictured or mentioned in the newspaper.

Invention	Available 10 Years Ago?	Will Be Replaced In 20 Years?

- Note, for each item you listed, if the item was available 10 years ago and if you think this item will exist in the same form 20 years from now.

Take the science challenge... Using the list above, focus on the items you think will be improved or replaced in the next 20 years. Explain what present technology may produce to replace each item. Describe each new item and how it will be "better" than what is presently being used.

FOCUS:
Careers/Technology

Activity # 58

High-Tech Interference



Though scientific technology has made possible many products that have been a benefit to mankind, this may not always be the case.

Environmentalists point to the development of many products (some made possible by scientific technology) that actually have become a great hazard to mankind. The nearly indestructible disposable diaper, for example, has become one of the most recent environmental evils.

Sometimes, technology may interfere with nature. Reports of these situations can often be found in the newspaper.

Student Name

- Locate examples of newspaper stories which point out or analyze situations where man and his technology interfered with nature. List several of these situations below.

Examples of Man & Technology Interfering With Nature

- Using one of the newspaper examples you found, discuss in the space below whether or not the outcome of this interference was beneficial or detrimental. Discuss the pros and cons of this situation.

- If the decision whether man and his technology should have interfered with nature had been up to you, what would your choice have been? Explain.



FOCUS:
Careers/Technology

Activity # 59

Good News Headlines



Headlines in the newspaper alert us about the contents of the news stories they accompany. These headlines often hint that there is good or bad news in the story we are about to read.

Frequently, "good news headlines" are the result of advancements made possible by years of research in the science field: For example, a story about the launching of a high-tech telescope into outer space that will increase our abilities to learn about that new frontier, or a story about a cure for a childhood disease, may have science and technology as an underlying theme.

Student Name

- Study the characteristics of most headlines. How are they written? On the average, how many words are contained in each? Are headlines complete sentences? What role do the headlines play?
- Develop five headlines on the lines below. These should be headlines for news stories that you would like to see happen in the world of science. The headlines should relate to scientific achievements that would make life more enjoyable, either by reducing the workload of citizens by creating more leisure time or by making the world a safer, healthier place to live.

1. _____
2. _____
3. _____
4. _____
5. _____

Take the science challenge... Write a futuristic news story to accompany one of the headlines you developed above. Be sure to write your story in a factual, objective style.



FOCUS:
General Science

Activity # 60

Experimental Insight



The foundation of many science stories in the newspaper may be the result of a scientific experiment.

Frequently, a newspaper reader can find stories about the results of an experiment in health, for example. The news story often cites an experiment that was conducted, who was responsible for the research, who (or what) was tested by the experiment, as well as a description of the variables involved in the experiment.

Laboratory experiments produce headlines more frequently than you might realize.

Student Name

- Use your newspaper to locate an article which describes a scientific experiment.
- Clip the article you find and attach it to this activity sheet.
- Develop a critique of the experiment mentioned in the newspaper by answering the questions below.

Headline

Newspaper Name

Page/Section

1. In which area of science did this experiment take place?
2. Who conducted the experiment? (This may be an individual, an agency or a particular laboratory.)
3. What problem was being investigated?
4. What was the scientific prediction?
5. What variables were being measured?
6. What variable was controlled?
7. What variable was non-controlled?
8. What were the conclusions or results of the study?

FOCUS:
General Science

Activity # 61

Scientific Comics?



Science can be seen all around us. Even in the newspaper, science may be reflected in more than the stock market, news stories, feature stories and advertising. Science can even be found in the comic strips!

Scientific anomalies are frequent in the comic strips. To recognize an anomaly (or deviation from the norm), one must first be aware of the scientific principle or rule that is being violated or momentarily suspended for the sake of the comic. Such anomalies in the comic strips might take on the form of talking animals, dogs climbing in trees or people performing superhuman feats.

Student Name

- Review the comic strips in your newspaper to locate examples of scientific principles which are being violated for the sake of getting across a message or communicating humor. Cite the examples you find below.

- In the space below create a scientific-based cartoon or comic strip, such as Gary Larson's *Far Side* (which grew to popularity in newspapers and is now retired to book collections). To understand this particular type of cartoon, an understanding of science is important, since many of Larson's topics deal with animal behavior or characteristics of micro-organisms.

FOCUS:
General Science

Activity # 62

The Source Of Conflict



Science is important to us in daily life. Without science and its technology, there are many things that we might be hard-pressed to live without. Sometimes, we may rely upon other countries for some of our resources (fuel, food, high-tech products, vaccines, etc.).

Disputes between countries often turn into war. Sometimes scientific factors become significant. They may affect one or both sides of the conflict. The factors may involve natural resources, climate or overpopulation, for example.

The newspaper often analyzes conflicts of this nature, but as readers, we may not recognize that the dispute is science-based.

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Student Name

- Use several different editions of your newspaper to identify some of the areas of the world that are at war or are in a dispute. List those places below.

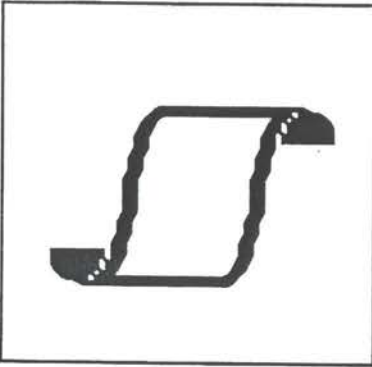
- Determine if scientific factors play a role in any of these strained relations or wars. Describe what you discover below.

Take the science challenge... Do you think scientific factors can be ignored in time of war? Discuss past wars and the impact that scientific factors may have had on the outcome of these wars.

FOCUS:
General Science

Activity # 63

A Tale Of Science Fiction



Science fiction is an often overlooked genre of literature. Through many of the books and stories of science fiction, we discover the foresight of authors of these classic works.

Some of the oldest works of science fiction contain references or descriptions of technology which is now available to us. At the time these works were created, some of these ideas were scoffed at by those who did not understand the scientific imagination of the creators.

The science fiction works created today may contain some of the realities of tomorrow.

Student Name

- Explore scientifically based ideas for science fiction. Clip science topics from the newspaper which might provide a good basis for a science fiction story. Find topics which would have been considered science fiction 20 years ago.
- Look ahead 50 years and use your imagination and scientific knowledge to create a short science fiction story on a separate sheet of paper.



FOCUS:
General Science

Activity # 64

As Easy As A-B-C



With a simple mention of the word "science," some people become fearful that they are being introduced to an area of study that is difficult and tedious.

Science surrounds us everyday. Many of the basic concepts of science are very easy to understand and to explain to others.

Newspaper writers are expected to report and explain the news in a variety of areas in simple terms. In this way, the newspaper communicates even the most difficult of ideas in simple terms that most readers can understand.

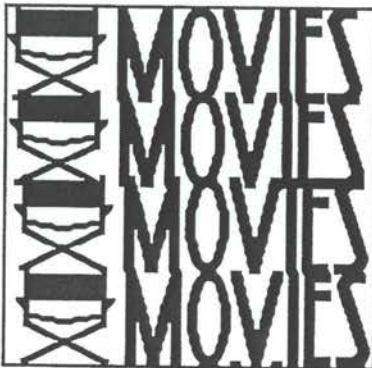
Student Name

- Select a scientific news article from your newspaper. Clip the article and attach it to this sheet of paper.
- Construct a book that could be read by or to a first grade student, using the information contained in the article as the main idea.
- Your book may be developed as a fictional story with facts from the news article as a basis for the story. Plan to "test" your creative work with a young student. Be prepared to answer basic questions that you may be asked. Use the space below to plan the basic elements of your book—setting, main idea (plot), characters and theme.

FOCUS:
General Science

Activity # 65

On The Big Screen



Newspapers provide a special service to people who seek entertainment in areas that interest them.

The movie directory in the newspaper provides a source of information for those readers who want to attend a movie. The directory contains advertising about a variety of movies so that the readers can identify movies that appeal to them and that are convenient to see.

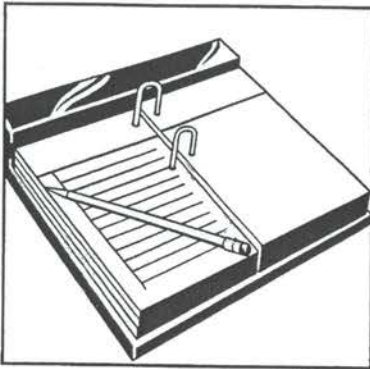
Student Name

- Read and analyze some of the basic elements found in movie reviews. List the elements of most movie reviews in the space below.
- Locate the movie directory in the newspaper. You may want to collect movie directories that appear in your newspaper for a period of two months, so that you will have a variety of movies to analyze.
- Critique a movie that contains science references. Whether the movie concentrates on science fiction, international espionage or high-tech topics, you are likely to find a variety of movies from which to choose. Use the space below to write your critique of the movie. Try to write your review as if it were appearing in the newspaper.

FOCUS:
General Science

Activity # 66

Up-To-Date



Many readers use the newspaper as a guide to plan an activity calendar for themselves and their families.

Programs and activities in the local area are often announced in the newspaper. Whatever a newspaper reader's special interest may be, there is likely to be a television program, movie, special museum exhibit, music presentation or lecture about it!

If science is a special interest area for an individual or a family, there are many programs announced in the newspaper that may satisfy the need to know more about science topics.

Student Name

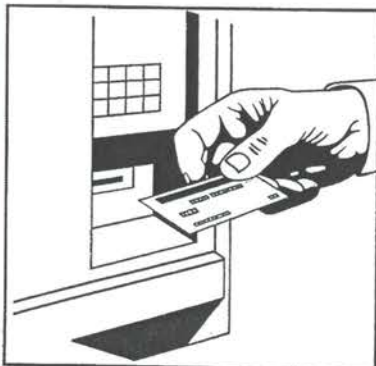
- Use your newspaper to construct a "science activities calendar" for a one-month period. Your calendar may include any science-related event in your area. Include in your calendar television programs, radio programs, lectures, exhibits, movies, special events, etc. Secure all the pertinent information about the event or program—date, time, place, admission—from your newspaper. Construct your calendar in the space below, or use the back of this page.

Take the science challenge...Develop a science activities calendar with a national and world focus. Use the newspaper to develop your calendar using fairs, special events and programs throughout the nation and world.

FOCUS:
General Science

Activity # 67

Science In My Life



By using the newspaper in your daily life, you are likely to discover and appreciate how much science is important to you now and in the future.

The newspaper carries information about new breakthroughs and discoveries that may have minor or major impact on the way you live. The newspaper communicates new ideas in the field of science that you may put into practice to help protect the environment. Newspaper editorials may even urge that you take immediate action to ensure a safer future for you and your family. Newspaper advertising may provide information about special products made possible by scientific research that you may want to use in your daily life.

Student Name

- Use almost every section of the newspaper to find examples of science in your daily life. Demonstrate the role that science plays in your life by using the newspaper to note everything you and a partner can locate that relates to science. Explain the science connection. (For example, you need to go to a shopping mall to purchase a pair of blue jeans. You or a parent may go to the local automatic teller—a product of computer technology—for cash to shop. You use a car and fuel for the car to get to the bank and the shopping mall, etc. Continue to think about how even your simplest of needs may be fulfilled by science.) Spend about 20 minutes to complete this activity.

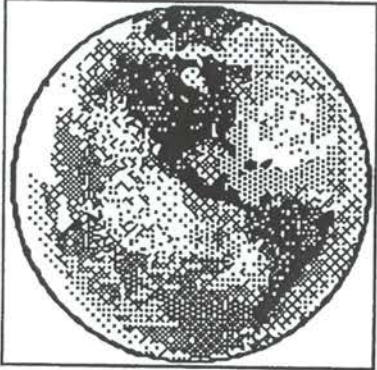
Examples

The Science Connection

FOCUS:
General Science

Activity # 68

Report: Life On Earth



If you were isolated from society for several years, you would lose track of the many changes in our world due to scientific discoveries and development.

Prior to your re-entry into society, the newspaper might give you a good indication of the many changes in the world due to the field of science.

The newspaper is a diary of our times and must be read daily to keep up with the many changes occurring around us.

Student Name

- Use one copy of your newspaper as evidence of "Life On Earth" discovered by interplanetary investigators. Using science as a frame of reference, imagine 10 assumptions or hypotheses that interplanetary investigators would carry back to their world with them based on the newspaper that you have in your hands. Record these 10 ideas below.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

FOCUS:
Supplemental Activities
69

The following activities are intended to serve as idea-starters for application in the science area. Educators may want to use these activities as special enrichment activities in learning centers or for extra-credit assignments. The following ideas may be used as is or may be modified to meet individual or large-group instructional needs.

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#1 Television Review



Review the television guide in your newspaper. Compile a list of selections which provide information related to the science field. Count the total number of science-related shows and divide this by the total number of shows presented during one week. This will give you the percentage of shows which contain science information.

#2 News Report



Write an article about a scientific event that you have witnessed in your lifetime. Write the article as if it were late-breaking news, complete with headline, lead sentence and supporting details. Prepare to present your report to your classmates, or use several of your classmates' reports to put together a science news journal.

#3 Electrifying Discoveries



Study the newspaper to locate information that reflects our society's dependency on electricity. Find numerous examples of items that rely on electricity for use. Determine what was used prior to the technology of electrical appliances and what might replace these items in the future.

#4 Emergency Zones



Collect several articles from your newspaper that report on accidents. These may be automobile, household or industrial accidents. List and describe each accident, causes and effects and several safety steps that could have been followed to prevent such an accident.

#5 First On The Scene



Locate newspaper articles that describe accidents that have occurred in your local area. For each accident, identify the first aid steps that should be taken by the first person to arrive on the scene of the accident. Identify emergency services available in your area that would be the most appropriate to contact for each accident.

#6 The Advertising Pitch



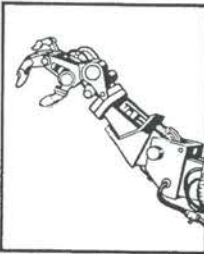
Analyze advertisements in your newspaper. Look at both the classified and retail advertising. Locate ads for products and services that use a scientific pitch to be more persuasive. Look for wording like "no cholesterol," "energy-saving" or "heart-healthy." Prepare a report on the results of your research.

FOCUS:
Supplemental Activities
70

The following activities are intended to serve as idea-starters for application in the science area. Educators may want to use these activities as special enrichment activities in learning centers or for extra-credit assignments. The following ideas may be used as is or may be modified to meet individual or large-group instructional needs.

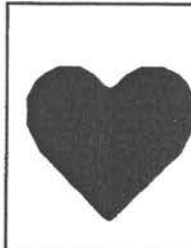
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#7 Looks Like A Million



Try to construct a functioning human body by locating various body parts in articles and ads throughout the newspaper. Classify the various body parts into the various systems—muscular, respiratory, digestive, nervous, sense organs, limbs, skeletal, etc. Write the page and column of the article beside each entry.

#8 Increased Circulation



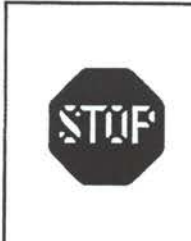
Nervous reactions, stress or medication are ways in which the heart rate may be increased. Some ways, such as exercise, are considered to be a healthy way of exercising the heart muscle. Skim the newspaper and find 10 situations in which a person's heart rate might increase. Discuss for each situation if the increase in the heart rate is healthy or not.

#9 Injured On The Job



Use the sports pages to identify various types of sports injuries. For each example you find, identify the muscle group most likely affected by the injury. Using your knowledge of physiology, explain the likely limitations of movement the injured person may have and what type of treatment and rehabilitation will/may be required.

#10 Organizing Micro-organisms



Until we come down with influenza or a common cold, we often forget how many types of micro-organisms may affect our daily lives. There are also many tiny organisms which have been credited with getting rid of diseases. Use your newspaper to find examples of ads for products that have been made possible by micro-organisms.

#11 Added Dangers



Use your newspaper to identify foods that contain additives or preservatives that might be hazardous to your health. For each food that you locate, identify the benefits as well as the dangers of the additives contained by the product. If the food no longer contained additives, what precautions would a consumer need to take?

#12 Scientific Time Capsule



Collect science articles that might provide interesting reading and insight about our times to readers of the future. Decide what the contents of your scientific time capsule will be and determine where you will place your time capsule and when it should be opened. Discuss with class members your plans for the time capsule.