



Nature-Watch

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Why in the World?

1. Skill Builders (2)

- a. Why does weather change from day to day? Investigate weather patterns by talking with a meteorologist or visiting a web site. What happens when a warm front meets a cold front? What causes global warming & holes in the ozone? Read 3 weather instruments.

Recommended Products:

[Weather Window Activity Kit \(#150\)](#)

[Global Warming Experiment Kit \(#278f\)](#)

- b. Have you ever asked yourself how something works? Use resources to draw a diagram of something to show how it works or make a model of it.
- c. "Visit a science museum, rock shop or gem & mineral collection to learn more about gems & minerals. Identify at least 10 minerals. Start a collection."

Recommended Products:

[Rocks and Minerals \(#250\)](#)

- d. "Investigate how new synthetic materials play an important role in 2 or more of the following: clothing, cars, homes, toys, sports equipment. What materials were previously used? What are advantages of the new materials?"
- e. "Learn about modern techniques used in food production, processing or preservation. Select 1 area & identify some key issues relevant in your community."
- f. "Be a creative cook. Learn the chemical properties of carbohydrates, microbes, acids & bases, oils & other substances. Create a recipe from scratch involving a chemical reaction."

2. Technology (1)

- a. "Ergonomics is a growing field. Make 2 "ergonomically correct" changes in the position of your desk & other study-related furnishing & equipment."
- b. "Tour a manufacturing or food processing plant. Learn about different job responsibilities, machines used, laws that govern the manufacturing process. Show slides, photos or diagrams of your findings."
- c. "Have science & technology affected the arts? Talk with a musician, sculptor, actor, photographer or other artist. What new materials do they use? What new art forms are being created that use advances in technology? Experiment with one of them."
- d. "Name the manufactured parts that can be implanted into a human body. Discuss reasons why those parts might need to be replaced. Draw an outline of the body, label those parts."
- e. Take a common household appliance and think forward 20 years. How will it look? What might it be able to do? Draw or design & display a model of a future appliance. Present your findings.

3. Service Projects (1)

- a. Help organize a school or scout science fair that encourages participation by girls.



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- b. Help a younger troop earn a science Try-It or Badge. Or develop a series of science & health activities for girls in a homeless shelter or after-school program.

Recommended Products:

[Nature-Watch Craft Kits](#)

- c. Volunteer in an ongoing program to educate others about breast cancer or osteoporosis or other diseases that affect more women than men.
 - d. "Work with an organization to inform teens about Sexually Transmitted Diseases, drug use, smoking, anorexia or bulimia."
 - e. Host a forum to generate interest among girls in science & math. Invite teachers & women scientists to participate.
4. Career Exploration (1)
- a. How do women get involved in science? Interview 2 women in this field. How did they get started? How do they feel about the future for women in science?
 - b. Identify at least 3 women scientists who have won the Nobel Prize & report on or write about their contributions.
 - c. Participate in a scientist penpal program through an established mentor project. Ask your librarian for assistance.
 - d. "Volunteer as a demonstrator at a science exhibit, science museum or nature center."