

# Let me see that!



## EXPERIMENTS WITH PLANTS

2008

Science Standard #4

Key Ideas

Living things are both similar to and different from each other and nonliving thing. Individual organisms and species change over time. The continuity of life is sustained through reproduction and development. Organisms maintains a dynamic equilibrium that sustains life. Plants and animals depend on each other.

**Catalog Number:** X1555

**Title:** What is scientific inquiry?

**Imprint:** United Learning, 2003.

**Physical Description:** Videocassette, 20 min., closed captioned.

**Summary:** From the beginning of human history, natural phenomena have puzzled people and have prompted them to ask questions. Scientific Inquiry is about answering these questions through investigation. Scientific Inquiry begins with questions "Why? What's going on? How is this explained?" In this program, we will follow a Sherlock Holmes - type investigate in the everyday and natural worlds, leading to some surprising and fun discoveries.

**Audience:** Intermediate

**Catalog Number:** X928

**Title:** George Washington Carver

**Imprint:** Library Video, 2001.

**Physical Description:** Videocassette, 23 min., closed captioned.

**Summary:** George Washington Carver gives students a close-up look at this fascinating teacher, scientist and inventor whose agricultural innovations improved the health, lives and fortunes of so many people. Carver popularized the idea of crop rotation, urging Southern farmers to concentrate less on soil-depleting cotton and to focus instead on planting different kinds of crops, including soybeans and peanuts. Perhaps Carver's most compelling quality was the way he used his ingenuity and keen understanding of botany to help solve problems faced by those in his community who needed it the most - struggling farmers.

**Audience:** Junior High

**Catalog Number:** X654

**Title:** All about caring for plants

**Imprint:** Schlessinger Media, 2000.

**Physical Description:** Videocassette, 23 min., closed captioned.

**Summary:** What do plants require in order to survive? In this video join young plant enthusiasts as they investigate what plants need in order to grow from seedlings to healthy adult plants. Discover the basic necessities of a variety of plants, including sunlight, water, appropriate temperature and proper nutrients. Learn how to provide the proper amount of these elements to enhance a plant's ability to grow strong and healthy. Kids also find out how changes in the environment can influence a plant's growth in an exciting, hands-on activity.

**Audience:** Primary

**Catalog Number:** X648

**Title:** All about plant adaptation

**Imprint:** Schlessinger Media, 2000.

**Physical Description:** Videocassette, 23 min., closed captioned.

**Summary:** In this video, join young plant lovers as they uncover some of the amazing ways that plants have adapted over millions of years enabling them to survive almost anywhere on Earth. A hands-on experiment that explores how the Venus flytrap has adapted to survive in mineral free water is also included.

**Audience:** Primary

**Catalog Number:** X645

**Title:** All about plant structure and growth

**Imprint:** Schlessinger Media, 2000.

**Physical Description:** Videocassette, 23 min., closed captioned.

**Summary:** How does a tiny seed sprout and grow into a towering tree? Join the kids from M.A.P.L.E. as they learn about some of the incredible transformations that a plant goes through during its lifetime. A hands-on experiment in which kids prove that xylem tissue flows through all parts of a plant is also included.

**Audience:** Primary

**Catalog Number:** X647

**Title:** All about pollination: fruit, flowers and seeds

**Imprint:** Schlessinger Media, 2000.

**Physical Description:** Videocassette, 23 min., closed captioned.

**Summary:** In this video young scientists learn about the different parts of a flower through the use of microscopic photography and detailed diagrams. In a hands-on experiment kids pollinate a flower themselves and then observe the development of its seeds and fruit.

**Audience:** Primary

**Catalog Number:** DVD218

**Title:** Bill Nye the Science Guy: flowers

**Imprint:** Disney, 2004.

**Physical Description:** DVD, 26 min., closed captioned.

**Summary:** The Science Guy, with the help of guest Drew Barrymore, shows that flowers are more than just pretty faces. They make seeds, play a key role in pollination, and help plants to reproduce.

**Audience:** Intermediate, Junior High, Senior High

**Catalog Number:** V5864

**Title:** Gardening with kids

**Imprint:** Pyramid Media, 2002.

**Physical Description:** Videocassette, 12 min.

**Summary:** This is a visual journey of school yard gardens from the Coast of Maine to Southern California and points in-between. Gardens that engage children are springing up in schools all across the United States. From urban cityscape schools to suburban and rural settings, gardens come in many different shapes and sizes, from raised bed gardens to school buildings that support rooftop gardens. Gardening teaches students the exciting concept of learning something new every day.

**Audience:** Adult

**Catalog Number:** DS854

**Title:** How a Plant Works

**Imprint:** Classroom Media, 1998.

**Physical Description:** Digital Video Streaming, 20 min.

**Summary:** Investigate how plants grow, sustain life, and reproduce through explanations about plant energy, respiration, the root system, and the functions of flowers and seeds.

**Summary:** Intermediate

**Catalog Number:** X683

**Title:** The Magic School Bus gets planted

**Imprint:** Scholastic, 1999.

**Physical Description:** Videocassette, 30 min., closed captioned.

**Summary:** When Phoebe tries to grow a big vine for her school's production of Jack and the Beanstalk, all she ends up with is a stunted little sprout. To help out, Ms. Frizzle turns her into a real vine. But to grow tall, Phoebe needs to figure out how plants eat fast! To unearth the amazing ways plants make their own food, the Friz and the kids shrink down and dig deep in a quest to root out the facts! Emmy Award Winner

**Audience:** Primary, Intermediate

**Catalog Number:** DS1832

**Title:** The Magic School Bus Goes to Seed

**Imprint:** Scholastic, 1994.

**Physical Description:** Digital Video Streaming, 26 min.

**Summary:** The Magic School Bus explores the anatomy of flowers and the process of pollination.

**Audience:** Primary, Intermediate

**Catalog Number:** DA145, V7236

**Title:** Plant parts

**Imprint:** Visual Learning Company, 2004.

**Physical Description:** DVD, videocassette, 14 min., teacher's guide.

**Summary:** Students will explore the basic parts of a plant including the stem, roots, and leaves. The video describes the functions of each of these plant parts using many real-world examples that students will recognize easily. Important terminology includes: tap root, fibrous root, stem, sap, nutrients, and leaf. includes 5-question video quiz and 25-page teacher's guide. Extra features on the DVD include, index, slides, glossary, English subtitles and an iMovie project.

**Audience:** Primary

**Catalog Number:** V7689

**Title:** Plant structure

**Imprint:** UL, 1999.

**Physical Description:** Videocassette, 14 min.

**Summary:** This programs shows the important roles played by the different parts of the plants, including roots, stems, and leaves. It also touches on how humans and other organisms use the various parts of plants.

**Audience:** Intermediate, Junior High

## PLANT EXPERIMENT WEBSITES FOR KIDS

### Plant experiments for kids:

5 plant experiment ideas intended for young children. Do plants grow better in different light? . Do plants grow better by talking to them? And more..

[mgonline.com/experimentsforkids.html](http://mgonline.com/experimentsforkids.html)

### Gardening Ideas from "Nutrition in the Garden"

3 Seed Experiments. The process by which seeds sprout into plants is called germination. Conduct simple experiments to test the effects of light and dark on seeds.

[aggie-horticulture.tamu.edu/nutrition/ideas/actnig.html](http://aggie-horticulture.tamu.edu/nutrition/ideas/actnig.html)

### Biome in a Baggie

Here's a way that you can experiment with how plants grow in different environments. It's a biome in a baggie.

[pbskids.org/zoom/activities/sci/biomeinabaggie.html](http://pbskids.org/zoom/activities/sci/biomeinabaggie.html)

*Order resources by phone (464-5104),  
by fax (464-5101)*

**NEW URL**

*Http://media.capregboces.org*



Linda Fox, Program Manager

Capital Region BOCES Instructional Media Services

Suite 102, 900 Watervliet Shaker Road

Albany, NY 12205