



UNIVERSITY OF ILLINOIS  
EXTENSION

College of Agricultural, Consumer and Environmental Sciences



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Dear Educator,

Enclosed is a listing of the science kits for loan to your classroom and a list of programs I am available to teach in your classroom. If you are looking for something special to supplement your curriculum and you don't see it on my list, please feel free to contact me because I may be able to find you the resources you need.

The kits can be picked up at our office between 8:00 a.m. and 4:30 p.m. Monday through Friday OR we can sometimes deliver and pick-up if we are coming in that direction. To schedule a program in your classroom it is helpful if you schedule early as our calendars fill up quickly.

If you have any questions, please feel free to call me at 532-3941 or e-mail at [phampton@illinois.edu](mailto:phampton@illinois.edu)

Sincerely,  
Peggy Hampton  
Unit Educator, Youth Development  
Montgomery County Extension

University of Illinois • US Dept of Agriculture • Local Extension Councils Cooperating  
*University of Illinois Extension provides equal opportunities in programs and employment.*

# Science Kits

## Adaptable for Grades K-6<sup>th</sup>

### Tree Kit — Grades K-6



This kit includes colorful identification and information cards, story-books, sample tree cuttings, and resource books with activities.

### Bird Kit — Grades K-6



This kit includes curriculum and activities from IL. Dept. of Natural Resources, transparencies, bird feeders and identification resources

### Mammals of Illinois Kit Grades K-6



This kit includes materials from IL. Dept of Natural Resources, animal tracks, a video, posters and activities.

### Geology Kit— Grades 3-10



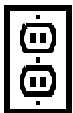
This kit includes curriculum from IL. Geological Survey, a rock collection from the Washington School Collection of Rocks & Minerals, and includes transparencies and a video.

### Recycle Kit — Grades 3-8



Games, activities and teaching materials will make learning to reduce, reuse, and recycle fun! The kit contains materials to make recycled paper, videotapes, and activities.

### Electricity — Grades 3-6



Learn about Magnetism & Electricity by making switches & a simple motor. Kit includes materials to do activities listed in curriculum.

## Social Issues



### **Polite is Right** – Grades K-6

This curriculum is designed to teach children social skills and encourage the use of considerate behaviors in social settings. Includes six lessons that can be used in the classroom or throughout the whole school

### **Bully Prevention** — Grades K-6

Students will learn what a bully is, the best way to deal with a bully and how to report a bully. This is a 2-part series for the classroom. This is also available as a teacher In-Service with additional research material on the causes and cures for bullying.

### **Diversity** — Grades K-8

Students will learn about the differences among people with hands-on activities that address race, disabilities, culture and age discrimination. This is a 2-3 part series in the classroom. This is also available as a teacher In-Service.

### **Anger Management** — Grades K-12

Students will learn how to identify their anger, their anger style and ways to control their anger. This is a 3-4 part series.

### **Walk in My Shoes** – Grades 3-12

This inter-generational kit provides activities and materials to simulate what it is like to get older. Activities include vision loss, hearing loss, impaired limbs, etc.

## Health & Wellness Issues



### **R.I.S.K. — Real Issues of a Sexual Kind** – Grades 7-12

RISK is a simulation activity and guided discussion that provides teens with a visual understanding of the costs associated with sexual behavior. Time needed: 1 session of 1 1/2 to 2 hours.

### **Nutrition for Teenagers**

- How to Select a Healthier Fast Food Meal — students will look at the various choices of fast food items and learn to select one lower in fat, sugar and salt. 1 session
- *Watch that Sugar* — students will determine the sugar content of their snacks and drink choices and learn how to pick a healthier snack. 1 session





# Wonder of Science With Wonderwise 4-H

**Wonderwise 4-H** introduces you to women who have made science their career.

**Wonderwise 4-H** provides a comprehensive instructional package that includes a video, activity book, and CD-ROM. With these kits, leaders and youth explore the world of women scientists and discover together the fun of learning about science.

This “hands-on” curriculum, ideal for grades 4-6, is a great way to involve your students in the wonders of science. National and Illinois Learning Standards have been identified to help meet your needs. Can be adapted for lower grades.

## Kits Available to Borrow:

**Sea Otter Biologist**...Brenda Ballachey, Ph.D., is a wildlife biologist in Alaska. She studies native sea otters and their environment. Her work has taken her to places like Prince William Sound after the Exxon Valdez oil spill to study the effects of environmental disasters on sea otter survival...Students will learn how to conduct oil spill investigations, observe and record sea otter behavior, discover how scientists track sea otters and try it out themselves.

**Pollen Detective**...Peg Bolick, Ph.D., is a botanist who specializes in pollen. She searches for pollen in fossils to learn more about the prehistoric past. She also researches present-day pollen and the role it plays in human allergies...Students will learn about plant parts, dissect a flower to find pollen, analyze a pollen sample to find what triggers allergies in some people, design and build flowers to attract pollinators, and dig for ancient pollen in artificial rocks.

**Vet Detective**...Tolani Francisco, DVM, travels Native American reservations to check on the health of bison and elk. Her challenge is to stop the spread of animal diseases using the science behind traditional Native values. Tolani's work in veterinary medicine takes her all over the world to help Native people protect their wildlife and their land...Students will explore how close people can safely get to animals, learn how to make sense of animal behavior, take their vital signs and compare their data to the vital signs of other animals, compare animal digestive systems and then simulate the process of digesting grass.

**Rainforest Ecologist**...Janalee Caldwell, Ph.D., is a biologist and a member of the Cherokee

Nation of Oklahoma. She studies poison frogs and other amphibians in the Amazon Rainforest to learn how they live and interact with other species in their intensely competitive environment...Students will test the strength and fat content of different nuts, design backgrounds to make poison frogs disappear or stand out, construct a sturdy rainforest tree from scratch, and create a rainforest.

**Parasite Sleuth**...Judy Sakanari, Ph.D., is a Japanese American parasitologist. She investigates worms and other parasites that live inside marine animals. Her work takes her to fish markets, sushi bars, and seal colonies in search of parasites that cause diseases in animals and humans...Students will create a parasite, make and dissect an Ascaris Worm, solve mysterious diseases by finding problem parasites, and unravel the stages of a developing tapeworm in a life-sized human gut.

**African Plant Explorer**...Fatimah Jackson, Ph.D., is an African American biologist and anthropologist. She studies common African plants that have remarkable uses as food and medicine. Her work takes her to many African countries where she studies local foods such as cassava, which guards against malaria. She takes samples of these foods back to the lab and investigates their chemical makeup to learn how they work their magic...Students will discover poisons in everyday foods, examine chemical properties of starch, use cassava to batik African symbols onto cloth, and follow the world travels of common foods throughout history.

**Urban Ecologist**...Carmen Cid, Ph.D., is a Cuban American ecologist. She studies urban wetlands and how to keep them healthy. Her work takes her to a small wetland in Connecticut where she keeps track of plant and animal diversity ...Students will use ears and then eyes to sharpen observations, learn how to test the health of their environment, predict and then test seed travel, explore the effects of water pollutants, and make a watershed to learn about toxic runoff into lakes and streams.

**Space Geologist**...Adriana Ocampo, M.S., searches through Belize and neighboring Mexico for traces of a crater caused by an asteroid that hit earth 65 million years ago. As a space geologist, Adriana helped scientists prove that an asteroid caused the extinction of the dinosaurs...Students will learn what a space geologist does, make an impact crater and investigate how craters take shape, test the effects of weather on craters, explore the earth's history, create a set of strata, take a core sample, and learn how to read the past.

**Genetic Counselor**...Cathy Burson, Ph.D., investigates diseases that children inherit from their parents and grandparents. Many of her patients at the University of Nebraska Medical Center are children. She is treating one of three children in the US to receive an experimental treatment for Pompe disease, a rare genetic disorder...Students will take a genetic survey about inherited traits such as eye and hair color, track different combinations of genes to create the face of a baby, build a gene model and learn how DNA copies itself, and read a chromosome chart.

