

4-H School Enrichment

University of Nebraska-Lincoln Extension - Madison County

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Check our web page.

E-mail for more information

WONDERWISE

These are fun informational sessions and videos that focus on science. There are four different areas that you can choose from. Please check which ones you would like to use in your classroom. It's like the ultimate science field trip right in your own classroom. **Video's can be used for career exploration.**

Resources are:

- teacher's manual
- A video for each unit, many activities for the students to participate in.
- CD-Rom

Each session is available for check out for \$3.00/class.

- Pollen Detective-

Margaret Bolick is a botanist who specializes in pollen. She searches for pollen in the remains of fossil animals to learn more about events in the prehistoric past. She also researches present-day pollen and the role it plays in human allergies.



Content Standard: Science: 4.1.2, 4.4.3

Social Studies/History: 4.1.7

- Space Geologist

Adriana Ocampo 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 compares craters that exist on other planets with ones that are known to exist on Earth. Her discovery helped scientists prove that an asteroid caused the extinction of the dinosaurs.

Content Standard: Science: 4.4.3, 4.8.1

- Vet Detective-

Tolani Francisco travels to Native American reservations in New Mexico to check on the health of bison and elk. She searches for signs of disease in fresh dung patties and blood samples she collects and tests in her lab. Tolani directs a U.S. Department of Agriculture agency that works with Native American tribes in the Southwest. Her mission is to stop the spread of animal diseases and help reestablish healthy stocks of bison and elk on tribal lands.

Content Standard: Science: 4.1.2, 4.4.1, 4.4.3

- Genetic Counselor-

Cathy Burson investigates diseases caused by genes. One of Cathy's patients is a little boy named Jason, who was diagnosed at birth with a rare genetic disorder called Pompe disease. Jason is one of three children in the United States who is receiving an experimental treatment for the disease. Without the treatment Jason would die. Cathy meets with Jason in her clinic at the University of Nebraska Medical Center, visits a DNA testing lab, examines chromosomes under a microscope, and shares information about Jason's genetic problem with children at a local school.

Content Standard: Science: 4.7.4

