



# Cub Scout Academics: Science

Cub Scout Pack 49

Denison, Iowa

Name of Scout: \_\_\_\_\_ Den: \_\_\_\_\_ Date: \_\_\_\_\_

**Please check what you have completed for either the loop or the pin:**

## REQUIREMENTS FOR THE SCIENCE ACADEMICS BELT LOOP

Complete these three requirements:

- \_\_\_ Explain the scientific method to your adult partner.
- \_\_\_ Use the scientific method in a simple science project. Explain the results to an adult.
- \_\_\_ Visit a museum, a laboratory, an observatory, a zoo, an aquarium, or other facility that employs scientists. Talk to a scientist about his or her work.

## REQUIREMENTS FOR THE SCIENCE ACADEMICS PIN

- \_\_\_ Required: Belt loop previously earned (or all three of the above requirements checked).

Complete five of the following requirements:

- \_\_\_ Make a simple electric motor that works.
- \_\_\_ Find a stream or other area that shows signs of erosion. Try to discover the cause of the erosion.
- \_\_\_ Plant seeds. Grow a flower, garden vegetable or other plant.
- \_\_\_ Use these simple machines to accomplish tasks: lever, pulley, wheel-and-axle, wedge, inclined plane, and screw.
- \_\_\_ Learn about solids, liquids, and gases using just water. Freeze water until it turns into ice. Then, with an adult, heat the ice until it turns back into a liquid and eventually boils and becomes a gas.
- \_\_\_ Build models of two atoms and two molecules, using plastic foam balls or other objects.
- \_\_\_ Make a collection of igneous, metamorphic, and sedimentary rocks and label them.
- \_\_\_ Learn about a creature that lives in the ocean. Share what you have learned with your den or family.
- \_\_\_ Label a drawing or diagram of the bones of the human skeleton.
- \_\_\_ Make a model or poster of the solar system. Label the planets and the sun.
- \_\_\_ Do a scientific experiment in front of an audience. Explain your results.
- \_\_\_ Read a book about a science subject that interests you.

I certify that this Cub Scout has completed the above marked requirements to the best of his ability.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_