Cub Scout Science

Cub Scout Academics and Sports Workbook

This workbook is not required but can help you with this award. Belt Loops and Pins may be earned more than once.
Links to other workbooks and resources are at the end of this workbook: Online Resources.
Send comments to the workbook developer: craig@craiglincoln.com. Workbook updated: March 2008.

Scout's Name: _____ Pack: _____

Cub Scout Science Belt Loop *(See the Pin Requirements below.)*

Complete these three requirements:

1. Explain the scientific method to your adult partner. _____

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2. Use the scientific method in a simple science project Explain the results to an adult. _____

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3. 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. _____

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Cub Scout Science Pin

Earn the Cub Scout Science belt loop, and complete five of the following requirements:

☐ 1. Make a simple electric motor that works. _____

☐ 2. Find a stream or other area that shows signs of erosion. Try to discover the cause of the erosion. _____

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☐ 3. Plant seeds. Grow a flower, garden vegetable, or other plant. _____

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☐ 4. Use these simple machines to accomplish tasks: lever, pulley, wheel-and-axle, wedge, inclined plane, and screw. _____

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☐ 5. 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. _____

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☐ 6. Build models of two atoms and two molecules, using plastic foam balls or other objects. _____

☐ 7. Make a collection of igneous, metamorphic, and sedimentary rocks and label them. _____

☐ 8. Learn about a creature that lives in the ocean. Share what you have learned with your den or family. _____

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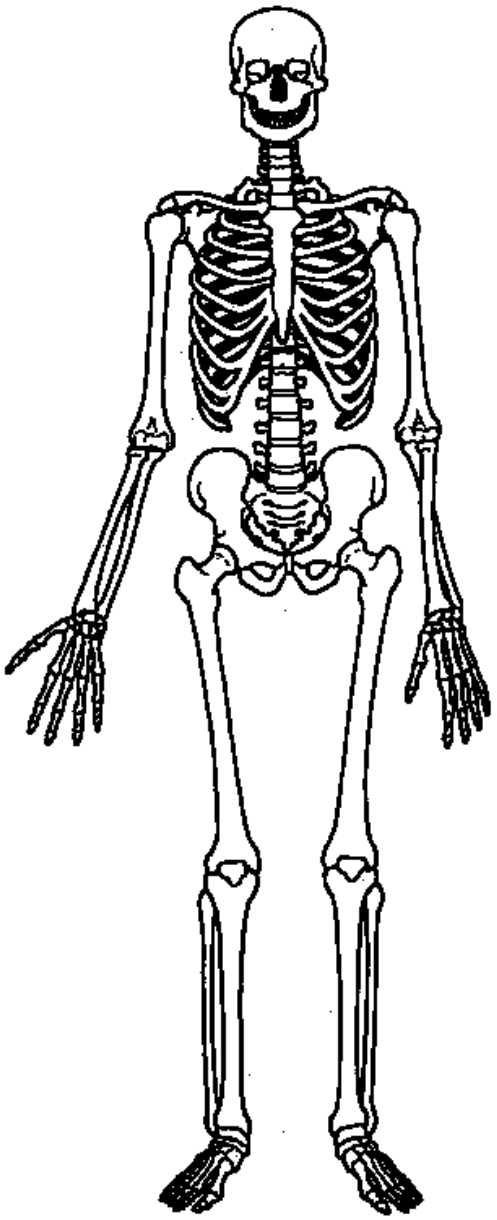
☐ 9. Label a drawing or diagram of the bones of the human skeleton. _____



☐ 10. Make a model or poster of the solar system. Label the planets and the sun. _____

☐ 11. Do a scientific experiment in front of an audience. Explain your results. _____

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☐ 12. Read a book about a science subject that interests you. _____

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Online Resources *(Use any Internet resource with caution and only with your parent's or guardian's supervision.)*

Boy Scouts of America: http://www.scouting.org/ Guide to Safe Scouting Age-Appropriate Guidelines for Activities

Other Cub Scout Academics and Sports Workbooks: http://meritbadge.org/index.php?title=CSW

The Cub Scout Academics and Sports Program expands on the rank and elective requirements for:

Tiger: http://meritbadge.org/index.php?title=Tiger **Wolf:** http://meritbadge.org/index.php?title=Wolf

Bear: http://meritbadge.org/index.php?title=Bear **Webelos:** http://meritbadge.org/index.php?title=Webelos

Webelos Activity Badge Workbooks: http://meritbadge.org/index.php?title=WW **-or-** usscouts.org

Make and Run a Simple Electric Motor Plans: ►Best ►Great ►Good ►BoysLife ►4H Book

Amer. Institute of Chemical Eng.: http://www.aiche.org Amer. Soc. of Civil Eng.: http://www.asce.org

ASME (Amer. Soc. of Mechanical Eng.): http://www.asme.org Institute of Electrical and Electronics Eng.: http://www.ieee.org

Jet Propulsion Laboratory: http://www.jpl.nasa.gov Junior Engineering Technical Soc.: http://www.jets.org

Kennedy Space Center: http://www.ksc.nasa.gov NASA: http://www.nasa.gov

Smithsonian National Air and Space Museum: http://www.nasm.si.edu