



# Cub Scout Geology

## 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](mailto:craig@craiglincoln.com). Workbook updated: July 2008.

Scout's Name: \_\_\_\_\_

Pack: \_\_\_\_\_

### **Cub Scout Geology Belt Loop** (See the [Pin Requirements](#) below.)

**Complete these three requirements:**

1. Define geology. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

2. Collect a sample of igneous, sedimentary, and metamorphic rocks. Explain how each was formed.

igneous, \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

sedimentary, \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

and metamorphic rocks \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

3. Explain the difference between a rock \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

and a mineral. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

### **Cub Scout Geology Pin**

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

1. Make a plaster cast of a fossil. \_\_\_\_\_

2. Make a special collection of rocks and minerals that illustrates the hardness scale. \_\_\_\_\_

3. Give examples of sedimentary, \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

igneous, \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ and metamorphic rocks. \_\_\_\_\_

4. Gather several different types of rocks. Compare them and put them in groups according to physical properties such as color, texture, luster, hardness, or crystals. \_\_\_\_\_

5. Describe the effects of wind, water, \_\_\_\_\_

\_\_\_\_\_ and ice on the landscape. \_\_\_\_\_

6. Make "pet rocks" using rocks, paint, and glue-on eyes. Tell a creative story about your pet rocks. \_\_\_\_\_

7. Draw a diagram showing different types of volcanoes or draw a diagram that labels the different parts of a volcano.

8. Make a crystal garden. \_\_\_\_\_

9. Make a collection of five different fossils and identify them to the best of your ability. \_\_\_\_\_

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10. Make a poster or display showing 10 everyday products that contain or use rocks or minerals. \_\_\_\_\_

11. Visit a mine, oil or gas field, gravel pit, stone quarry, or similar area of special interest related to geology. \_\_\_\_\_

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12. Visit with a geologist. Find out how he or she prepared for the job. \_\_\_\_\_

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Discuss other careers related to geology. \_\_\_\_\_

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13. Draw the inside of a cave showing the difference between stalactites and stalagmites.

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

**Cub Scout Advancement:** <http://usscouts.org/advance/cubscout/ranks.asp>

**Tiger:** <http://meritbadge.org/wiki/index.php?title=Tiger>

**Wolf:** <http://meritbadge.org/wiki/index.php?title=Wolf>

**Bear:** <http://meritbadge.org/wiki/index.php?title=Bear>

**Webelos:** <http://meritbadge.org/wiki/index.php?title=Webelos>

**Cub Scout Academics and Sports Workbooks:** ► [meritbadge.org](http://meritbadge.org) -or- ► [Academics](#) / [Sports](#)

**Webelos Activity Badge Workbooks:** ► [usscouts.org](http://usscouts.org) -or- ► [meritbadge.org](http://meritbadge.org)

**Boy Scouts of America:** <http://www.scouting.org/> ► [Guide to Safe Scouting](#) ► [Age-Appropriate Guidelines for Activities](#)

American Geological Institute: <http://www.agiweb.org>

The Geological Society of America: <http://www.geosociety.org>

U.S. Geological Survey: <http://www.usgs.gov>