



Cub Scout Geology

Academics Workbook



The work space provided for each requirement should be used by the Cub Scout to make notes for discussing the item with Akela, not for providing the full and complete answers. Each Cub Scout must do each requirement.

No one may add or subtract from the official requirements found in the Cub Scout Academics and Sports Program Guide (Pub. 34299)

This workbook was updated in May 2013.

<http://www.USScouts.Org> • <http://www.MeritBadge.Org>

Please submit errors, omissions, comments or suggestions about this **workbook** to: Workbooks@USScouts.Org

Comments or suggestions for changes to the **requirements** for the **Belt Loop or Pin** should be sent to: Advancement.Team@Scouting.Org

Cub Scout's Name: _____ Pack No. : _____

Webelos Scouts that earn the Geology Belt Loop while a Webelos Scout also satisfy requirement 9 for the Geologist Activity Badge.

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

Complete these three requirements:

1. Explain to your den or an adult family member what geology means.

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

Igneous	
Sedimentary	
Metamorphic	

3. Collect samples of three minerals.

1.	
2.	
3.	

Explain to your family or den what a mineral is and show and tell about the minerals you collected.

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.

Sedimentary	
Igneous	
Metamorphic	

- 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.

Wind	
Water	
Ice	

- 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.
- 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.
- 12. With your parent or adult partner, visit with a geologist. Find out how he or she prepared for the position. Discuss other careers related to geology.

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

Requirement resources can be found here:
http://www.meritbadge.org/wiki/index.php/Cub_Scout_Geology#Requirement_resources

Important excerpts from the [‘Guide To Advancement’](#), No. 33088:

Effective January 1, 2012, the *‘Guide to Advancement’* (which replaced the publication *‘Advancement Committee Policies and Procedures’*) is now the *official* Boy Scouts of America source on advancement policies and procedures.

- **[Inside front cover, and 5.0.1.4] — Unauthorized Changes to Advancement Program**
No council, committee, district, unit, or individual has the authority to add to, or subtract from, advancement requirements. (There are limited exceptions relating only to youth members with disabilities. For details see section 10, “Advancement for Members With Special Needs”.)
- **[Inside front cover, and 7.0.1.1] — The [‘Guide to Safe Scouting’](#) Applies**
Policies and procedures outlined in the *‘Guide to Safe Scouting’*, No. 34416, apply to all BSA activities, including those related to advancement and Eagle Scout service projects. [Note: Always reference the online version, which is updated quarterly.]
- **[4.1.0.3] — Who Approves Cub Scout Advancement?**
A key responsibility for den leaders is to implement the core den meeting plans as outlined in the Den & Pack Meeting Resource Guide, No. 34409. For Wolf, Bear, and Webelos advancement, den leaders take the lead in approving requirements, though their assistants, and also parents who help at meetings, may be asked to play the role of “Akela” and assist. Parents sign for requirements that, according to meeting plans and instructions in the handbooks, take place at home. For the Bobcat trail and Tiger Cub achievements, parents (or adult partners) should sign in the boy’s handbook; the den leader then approves as progress is recorded in the den’s advancement record.
- **[4.1.0.4] — “Do Your Best”**
Advancement performance in Cub Scouting is centered on its motto: “Do Your Best.” When a boy has done this—his very best—then regardless of the requirements for any rank or award, it is enough; accomplishment is noted. This is why den leaders, assistants, and parents or guardians are involved in approvals. Generally they know if effort put forth is really the Cub Scout’s best.
- **[4.1.2.2] — Cub Scout Academics and Sports Program**
More than just a recognition opportunity, this program develops new skills, improves those existing, and otherwise enriches Cub Scouting. Details can be found in the Cub Scout Academics and Sports Program Guide, No. 34299. Activities include subjects like science, video games, collecting, and chess; and sports such as baseball, skateboarding, and table tennis. Each has two levels—a belt loop and a pin. Belt loops, which can be earned more than once, are awarded when each of three requirements is met. Cub Scouts may then continue with additional requirements and earn the pin. Archery and BB gun shooting are included, but can only be conducted at a council presented activity with certified supervisors.

Additional notes of interest:

- Tiger Cubs, Cub Scouts, and Webelos Scouts may complete requirements for all Academics and Sports Belt Loops and Pins **(except shooting sports)** in a family, den, pack, school, or community environment. Tiger Cubs must work with their parents or adult partners. Parents and partners do not earn loops or pins.
- **“Akela”** (Pronounced “Ah-KAY-la”) — Title of respect used in Cub Scouting—any good leader is *Akela*. *Akela* is also the leader and guide for Cub Scouts on the advancement trail. The name comes from Rudyard Kipling’s *Jungle Book*. (See “Law of the Pack.”)
- **“Law of the Pack”** —
The Cub Scout follows Akela.
The Cub Scout helps the pack go.
The pack helps the Cub Scout grow.
The Cub Scout gives goodwill.