

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. Workbook updated: March, 2011.

s Name:	Pack:		
Scout Geology Belt Loop (See the Pin Requirements below.)			
lete these three requirements:			
ain to your den or an adult family member what <i>geology</i> means			
Collect samples of igneous, sedimentary, and metamorphic rocks. Explain how	each was formed.		
igneous,			
sedimentary,			
and metamorphic rocks			
Collect samples of three minerals.			
a			
Explain to your family or den what a mineral is and show and tell about the mine	erals you collected		
Scout Geology Pin			
he Cub Scout Geology belt loop, and complete five of the following require	ements:		
Make a plaster cast of a fossil.			
Make a special collection of rocks and minerals that illustrates the hardness sca	ale		
Give examples of sedimentary,			
	Scout Geology Belt Loop (See the Pin Requirements below.) lete these three requirements: Explain to your den or an adult family member what geology means Collect samples of igneous, sedimentary, and metamorphic rocks. Explain how igneous, sedimentary, and metamorphic rocks Collect samples of three minerals. a b c Explain to your family or den what a mineral is and show and tell about the mineral samples of the cub Scout Geology Pin the Cub Scout Geology belt loop, and complete five of the following required Make a plaster cast of a fossil. Make a special collection of rocks and minerals that illustrates the hardness sca		

Jub S	Scout Geology Award p. 2	Cub Scout Workbook	Scout's Name:
	igneous,		
	and metamorphic rocks		
] 4.			groups according to physical properties such as
<u> </u>	color, texture, luster, hardness, or crystals. 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 s	tory about your pet rocks.
<u> </u>	Draw a diagram showing different ty	pes of volcanoes or draw a diagran	n that labels the different parts of a volcano.
] 8.	Make a crystal garden.		
] 9.	Make a collection of five different for	ssils and identify them to the best of	f your ability
10). Make a poster or display showing 10	everyday products that contain or	use rocks or minerals.

scout Geology Award p. 3	Cub Scout Workbook	Scout's Name:
11. Visit a mine, oil or gas field, grave	l pit, stone quarry, or similar area of s	special interest related to geology.
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12. With your parent or adult partner,	visit with a geologist. Find out now no	e or she prepared for the position.
Discuss other careers related to a	eology	
Discuss other careers related to g		
13. Draw the inside of a cave showing	the difference between stalactites a	nd stalagmites.
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Online Resources (Use any Internet resource with caution and only with your parent's or guardian's supervision.)

Cub Scout Academics and Sports Workbooks: meritbadge.org -or- Academics / Sports

Webelos Activity Badge Workbooks: <u>usscouts.org</u> -or- <u>meritbadge.org</u>

Boy Scout Merit Badge Workbooks: <u>usscouts.org</u> -or- <u>meritbadge.org</u> Merit Badge Books: <u>www.scoutstuff.org</u>

Requirement Resources

These resources and much more are at: http://meritbadge.org/wiki/index.php/Cub_Scout Geology

- 1. What is a Fossil? How to make a fossil cast: From hometraining.com from eHow
- 2. Scale of hardness with examples and photos
- 3. The three classes of rocks Rocks & the Three Types Rock
- 4. Mineral Origin & Chemical Composition and identification properties
- 5. The effects of wind, water, and ice on the landscape Wikipedia with many photos
- 7. Wikipedia Diagram: Volcano Encarta Diagram: Volcano
- 8. How to Make a Crystal Garden eHom Instructions
- 9. Fossil Facts USGS Fossils How Fossils are Formed Chart of geological eras of fossils Fossil
- 10. Resources that can be extracted or mined Common Minerals and Their Uses Geologic materials used in building materials Common Minerals and Their Uses Minerals.Net Mineral Resources WebMineral.Com Resources that can be extracted or mined Iron Refining Oil Refining Diamonds Gold Coal
- 12. Careers in Geology: Geology Careers Geoscience Careers Careers in Geology Careers in Geology

Scout's Name:

13. Encarta Encyclopedia: <u>Caves</u> - <u>Stalactites and Stalagmites</u> - Wikipedia: <u>Lots of great photos of Caves</u> - <u>Cave Diagram with Stalactites and Stalagmites</u>