



# Geologist

## Webelos Activity Workbook

This workbook is not required but can help you with this activity badge. Your Webelos Den Leader approves your work. No one can add or subtract from the requirements. Webelos Workbooks and much more are below: [Online Resources](#). Send comments to the workbook developer: [craig@craiglincoln.com](mailto:craig@craiglincoln.com). Workbook updated: April 2009.

Scout's Name: \_\_\_\_\_ Pack: \_\_\_\_\_ Activity Badge Counselor: \_\_\_\_\_

Do five of these

1. Collect five geologic specimens that have important uses.

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2. Rocks and minerals are used in metals, glass, jewelry, road-building products, and fertilizer. Give examples of minerals used in these products.

Metals: \_\_\_\_\_

Glass \_\_\_\_\_

Jewelry \_\_\_\_\_

Road-Building Products \_\_\_\_\_

And Fertilizer \_\_\_\_\_

3. Make a scale of mineral hardness for objects found at home. Show how to use the scale by finding the relative hardness of three samples.

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Scale Number	Mineral Example	Scratch Test

4. List some of the geologic materials used in building your home. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Make a drawing that shows the cause of a volcano, a geyser, or an earthquake.

6. Explain one way in which mountains are formed. \_\_\_\_\_

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

7. Describe what a fossil is. \_\_\_\_\_

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

How is it used to tell how old a formation is? \_\_\_\_\_

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

Find two examples of fossils in your area.

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

8. Take a field trip to a geological site, geological laboratory, or rock show. \_\_\_\_\_

Discuss what you learned at your next Webelos den meeting. \_\_\_\_\_

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

9. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Geology. *(You can earn it again.)* \_\_\_\_\_

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

Geologist can help prepare you for [Geology](#) Merit Badge.

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

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

**Boy Scouts of America:** ▶ [scouting.org](http://scouting.org) ▶ [Guide to Safe Scouting](#) ▶ [Age-Appropriate Guidelines](#) ▶ [Safe Swim Defense](#)  
▶ [Scout](#) ▶ [Tenderfoot](#) ▶ [Second Class](#) ▶ [First Class](#) ▶ [Rank Videos](#) ▶ [Safety Afloat](#)

**Boy Scout Merit Badge Workbooks:** [usscouts.org](http://usscouts.org) -or- [meritbadge.org](http://meritbadge.org)    **Merit Badge Books:** [www.scoutstuff.org](http://www.scoutstuff.org)

**Requirement Resources**

These resources and much more are at: <http://meritbadge.org/wiki/index.php/Geologist>

1. [Resources that can be extracted or mined](#) - [Iron Refining](#) - [Oil Refining](#) - [Diamonds](#) - [Gold](#) - [Coal](#)
2. [Common Minerals and Their Uses](#) - [Minerals.Net Mineral Resources](#) - [WebMineral.Com](#) -
3. [Scale of mineral hardness](#)
4. [Geologic materials used in building.](#)
5. Wikipedia Diagrams: [Volcano](#) - [Geyser](#) - [Earthquake](#)  
Encarta Diagrams: [Volcano](#) - [Geyser](#) - [Geyser diagram](#) - [Earthquake](#)
6. Formation of Mountains: [Encarta Encyclopedia](#) - [Wikipedia](#)
7. [What is a Fossil?](#) - [Fossil Facts](#) - [USGS Fossils](#) - [How Fossils are Formed](#) - [Chart of geological eras of fossils](#) - [Fossil](#)
9. [Cub Scout Academics belt loop for Geology](#)