



Boy Scouts of America Merit Badge Program Workshop

BSA Merit Badge Requirements: Geology

Note: Lion Country Safari's badge workshop will help your Scout group prepare for earning a badge. The following list will help you to understand what Lion Country Safari covers, and what the Scout and/or group will need to do to complete the badge requirements. All badge workshops must be arranged in advance.

Completed at Lion Country Safari:

1. Define geology. Discuss how geologists learn about rock formations. In geology, explain why the study of the present is important to understanding the past.
4. Do ONE of the following:
 - b. Find out about three career opportunities available in geology. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.
5. Do ONE of the following (a OR b OR c OR d):
 - c. Mineral Resources Option
 1. Define rock. Discuss the three classes of rocks including their origin and characteristics.
 2. Define mineral. Discuss the origin of minerals and their chemical composition and identification properties, including hardness, specific gravity, color, streak, cleavage, luster, and crystal form.
 3. Do ONE of the following:
 - b. With your counselor's assistance, identify 15 different rocks and minerals. List the name of each specimen, tell whether it is a rock or mineral, and give the name of its class (if it is a rock) or list its identifying physical properties (if it is a mineral).
 5. Do ONE of the following:
 - b. With your counselor, choose two examples of rocks and two examples of minerals. Discuss the mining of these materials and describe how each is used by society.

To be completed at home:

2. Pick three resources that can be extracted or mined from Earth for commercial use. Discuss with your counselor how each product is discovered and processed.



3. Review a geologic map of your area or an area selected by your counselor, and discuss the different rock types and estimated ages or rocks represented. Determine whether the rocks are horizontal, folded, or faulted, and explain how you arrived at your conclusion.
5. Do ONE of the following (a OR b OR c OR d):
 - c. Mineral Resources Option
 4. List three of the most common road building materials used in your area. Explain how each material is produced and how each is used in road building.

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