



ROCKS ROCK Junior Girl Scout Badge* GEOFAIR

1. BE A ROCK HOUND!

2. GEO HUNT

<u>Start a rock collection at the Cincinnati Gem and Mineral Show</u>. Ask questions about the different kinds rock, minerals, and fossils.

No activity at the snow.	
3. WHAT TYPE IS IT? Rocks fall into one of three categories. Describe the char	acteristics of the three types of rock
Igneous	
Metamorphic	
Sedimentary	
Which rocks in your collection are?	
Sedimentary	
Metamorphic	
Igneous	
4. SOIL SENSE Make a list of the different particles that make up soil in the	nis area.

	rit badge officials will be available at the meeting.
Where do the	e soil ingredients come from?
Soil in other	areas of the country may be different. What are some of these different elements
	AREERS a geologist or a paleontologist about the different types of training or education do their jobs. What other kind of careers relate to studies of the earth?
University	ne booths of the: y of Cincinnati – See the display on fossils niversity – Middletown—3 Types of Rocks, Ways to Identify, Definitions of Minerals and Geology
	i Mineral Society and Dry Dredgers at the Welcome Booth at the entrance
Cincinnati	
6. WIPE OU	TT EROSION! ty at the Gem and Mineral Show.

8. THE VIEW FROM ABOVE No activity at the Gem and Mineral Show
9. FOSSIL FUN How are fossils made?
Find examples of fossils that are:
Impressions
Molds
Cast
What is Ohio's state fossil?
What is Kentucky's state fossil?
Name other common fossils found in the area.
10. WEATHERED OR NOT No activity at the Gem and Mineral Show. Girl Scout Troops should do at least one outside activity to earn the Rocks Rock Junior Girl Scout Badge. For example: Requirement #2, girls should search for the geological clues in the community. Requirement #8, girls look at satellite photos to locate landmarks. Requirement #10, girls look for weather clues on the land.
Date completed
Scout's signature
Leader's signature

Questions based on MUM Geology Club tables; Miami University-Middletown
1) List three types of jobs you could have as a geologist
2) When trying to identify a mineral is color a good property to use? Why or why not?
3) How do we identify igneous rocks?
4) If magma cools below the surface of the Earth what type of rock forms?
5) How do we identify sedimentary rocks?
6) Name the two most common sedimentary rocks found in the Tri-state area
7) Does a foliated metamorphic rock have "layers? If so how do they form?
8) When rocks weather what do they form?
9) List the following from largest to smallest grain size: Silt, clay, and sand
10) How can you determine the amount of sand, silt and clay in the soil in your backyard?
Questions about Fossils Compiled by David L. Meyer, Professor of Geology, University of Cincinnati
1 – What is a fossil? How do fossils form? Explain each of these kinds of fossils: body fossil, trace fossil, internal mold, external mold, cast
2 – Why are fossils useful and significant? What is paleontology?
3 – Why is the Cincinnati area (Tristate) famous all over the world for its fossils and sedimentary rocks? How old are these fossils? Name some of the common fossils found in the area.
4 – What is the Cincinnati Arch? How did it form? Why is it important for understanding the geology of the region?
5 – Where can we go to find fossils in this area?
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