



Pathfinder's Name

Geology

1. Give the geological meaning of the following words:

Delta _____

Cirque _____

Sand spit _____

Mesa _____

Sinkhole _____

Alluvial fan _____

Oxbow lake _____

Anticline _____

Moraine _____

Syncline _____

- ❑ 2. Describe the following:
 - a. A shield-type volcano as compared to a composite volcano
Shield _____

Composite _____

 - b. How a glacier moves and what evidences it leaves behind

 - c. How sediments are laid down by water

 - d. The different types of mountains

 - e. Why a river or stream bank often keeps caving in on the outside of a bend

- ❑ 3. Know what category of rocks (sedimentary, metamorphic, or igneous)

the following rocks are:

	Type
Granite	_____
Marble	_____
Sandstone	_____
Lava	_____
Conglomerate	_____
Limestone	_____
Slate	_____
Basalt	_____
Shale	_____
Gneiss	_____

4. Take a picture or make a sketch of each of the following geological features:
- a. A bed of sediment that is coarser at the bottom and finer toward the top (This is called normal graded bedding.)
 - b. Ripple marks in sand or mud (Show with an arrow the current direction if possible.)
 - c. Gulley erosion
 - d. Mud cracks (These can usually be found after a heavy rain or flood when mud starts to dry.)
 - e. Soil profile along a stream bank or road cut (You should be able to see how soil usually becomes lighter colored downward from the surface of the ground.)
 - f. Sand bar (Sand bars can be found in rivers or streams, or along the ocean.)

Geology, Advanced

- 1. Have the Geology Honor.
- 2. Provide the following information:
 - a. How do earthquakes tell us what the interior of the earth is like?

- b. How can a lot of water (as in Noah's flood) do in a few months what a little water would require thousands or millions of years to do?

- c. Why are evidences of glaciers seen in the temperate climes where there are now no glaciers?

- d. How do creationists, who believe in a universal flood and in a young age for the earth since creation, understand and use the geological time chart?

- e. What is the continental drift (plate tectonics) theory, and how can

creationists fit such geological activity into time since creation?

3. Where in the world would you likely see:

Large glaciers _____

Faultblock mountains _____

Active volcanoes _____

Folded mountains _____

Sand dunes _____

Chalk cliffs _____

Sinkholes _____

Icebergs _____

Fiords _____

Atolls _____

4. Write a 500-word paper on one of the following:

a. Describe the interesting geology you saw on a trip you took recently.

b. Describe the geological activity that happened because of a heavy rain, flood, or windstorm that you experienced.