

Geology



1. Give the geological meaning of the following words:
 - a. Delta
 - b. Sand spit
 - c. Sinkhole
 - d. Oxbow lake
 - e. Moraine
 - f. Cirque
 - g. Mesa
 - h. Alluvial fan
 - i. Anticline
 - j. Syncline

2. Describe the following:
 - a. A shield-type volcano as compared to a composite volcano
 - 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:
 - a. Granite
 - b. Sandstone
 - c. Conglomerate
 - d. Slate
 - e. Shale
 - f. Marble
 - g. Lava
 - h. Limestone
 - i. Basalt
 - j. 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.)

Skill Level 1

Original Honor 1975

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:

a. Large glaciers	f. Faultblock mountains
b. Active volcanoes	g. Folded mountains
c. Sand dunes	h. Chalk cliffs
d. Sinkholes	i. Icebergs
e. Fiords	j. 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.

Skill Level 2

Original Honor 1975