

# Geology

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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

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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