



# **Earth Science: Geology**

# Volcanoes

*He set the earth on its foundations, so that it should never be moved. –  
Psalm 104:5*

1. When a volcano is dormant, does that mean it is quiet or active?

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2. When a volcano becomes active, what does it do?

*(Circle the answer below)*

**It walks around**

**It erupts**

**Lava flow stops**

3. Once magma leaves the volcano, what is it called?

*(Circle the answer below)*

**Lava**

**Concrete**

**Water**

4. **True or False?** The Hawaiian Islands were built entirely by a volcano.

## VIDEO ACTIVITY

To help illustrate what a volcano looks like when it erupts, you are going to make a model volcano.

*(Note to moms and dads – fresh vinegar and baking soda work much better than stuff that has been sitting around for a while.)*

### What you will need:

**9x13 baking pan**  
**Plastic cup**  
**3/8 cup Vinegar**

**Baking soda**  
**Tablespoon**  
**Water**

**Clay**  
**Red food coloring**  
**Bowl**

1. Set your cup in the pan.
2. Shape the clay around the cup and into the shape of a volcano.
3. Put 2 tablespoons of baking soda and a few drops of food coloring into your volcano.
4. Pour the vinegar into the volcano.
5. Watch your volcano erupt!



## Ice Age

*He set the earth on its foundations, so that it should never be moved. – Psalm 104:5*

1. What very cold weather change happened a little while after the waters dried up from Noah's Flood? *(Circle the answer below)*

**The Water Age**

**The Ice Age**

**The Book Age**

2. What are glaciers? *(Circle the answer below)*

**Big sheets of ice**

**Islands**

**Mountains**

3. **True or False?** For an Ice Age to happen, the oceans have to be cold and the air has to be warm.

4. Just after the Flood, did a lot of volcanoes erupt, or just a few?

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5. \_\_\_\_\_ is liquid rock when it is underground and \_\_\_\_\_ is liquid rock after it erupts out of a volcano.



# Glaciers

*He set the earth on its foundations, so that it should never be moved. – Psalm 104:5*

1. When the glaciers melted, they dropped lots of dirt and rocks into piles. What are these piles called? *(Circle the answer below)*

**Dust**

**Hills**

**Moraines**

2. Does the Bible talk about the Ice Age?

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3. Was the Great Flood before or after the Ice Age?

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## PUZZLE

Match the phrase on the left to the correct word on the right.

**When a volcano is quiet, it is...**

**Ice Age**

**When a volcano becomes active, it...**

**dormant**

**After the Flood, there was an...**

**glaciers**

**Huge sheets of ice are also called...**

**erupts**

# PUZZLE

Find all the words in the word search below.

Glacier

Ice Age

Moraines

Ocean

Noah's Flood

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
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| O | A | O | U | J | E | C | X | G | X |
| N | G | Q | P | C | A | I | A | T | U |
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| N | Z | Y | G | B | L | R | F | E | T |
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# Earthquakes

*He set the earth on its foundations, so that it should never be moved. – Psalm 104:5*

1. What is it called when energy underground is released and the ground shakes? *(Circle the answer below)*

**An earthquake**

**A hurricane**

**A tornado**

2. What is the tool that measures earthquakes called? *(Circle the answer below)*

**Seismograph**

**Earthquake machine**

**Thermometer**

3. **True or False?** There are around 500,000 earthquakes per year.

4. Glaciers, \_\_\_\_\_ and earthquakes all help shape the landscape around us. *(Circle the answer below)*

**continents**

**canyons**

**volcanoes**

## Erosion

*He set the earth on its foundations, so that it should never be moved. –  
Psalm 104:5*

1. **True or False?** Erosion is when water and wind wear down and remove rocks and soil.
2. Can you see areas where erosion has occurred if you look closely?  
\_\_\_\_\_
3. You can see signs of erosion around \_\_\_\_\_ and creeks.  
(Circle the answer below)

streets

rivers

houses

## **VIDEO ACTIVITY**

To help you understand the way erosion works, you are going to make a small erosion model.

### **What you will need:**

**A clear cup**

**Sugar cubes**

**Water**

**A spoon or Popsicle stick**

1. Fill the cup up with water.
2. Drop 2 or 3 sugar cubes into the water.
3. Stir the water around.
4. Notice how moving the water around the sugar cubes makes the cubes dissolve faster. That is how erosion works!

