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?

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!
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?

5. _____________ is liquid rock when it is underground and _____________ is liquid rock after it erupts out of a volcano.
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?

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
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
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!
Finish the crossword puzzle below using the words provided.

Across
2. Hawaii was built by a ________________.
4. When energy underground is released and the ground shakes, an ________________ occurs.
5. When water and wind wear down and remove rocks and soil, that is called ________________.
7. Once magma leaves the volcano, it is called ________________.

Down
1. When the glaciers melted, they dropped lots of dirt and rocks into piles called ________________.
3. After the Flood, an ________________ Age happened.
6. For an Ice Age to happen, the ________________ has to be warm and the air has to be cold.