WEEK 8

Earth Science: Geology
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 inside of the volcano, what is it called? *(Circle the answer below)*

   - Lava
   - Concrete
   - Water
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:

<table>
<thead>
<tr>
<th>9x13 baking pan</th>
<th>Tablespoon</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic cup</td>
<td></td>
<td>Clay</td>
</tr>
<tr>
<td>3/8 cup Vinegar</td>
<td></td>
<td>Red food coloring</td>
</tr>
<tr>
<td>Baking soda</td>
<td></td>
<td>Bowl</td>
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</tbody>
</table>

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.
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
PUZZLE

Find all the words in the word search below.

Glacier     Ice Age
Moraines    Ocean    Noah’s Flood

J      H      Y      W      V      S      F      Z      L      N
F      N      M      Z      Y      Q      U      M      T      O
T      M      O      C      G      Q      G      I      B      A
S      G      R      O      P      A      D      C      E      H
L      L      A      W      I      K      T      E      H      S
K      A      I      W      V      J      A      A      A      F
I      C      N      Q      O      G      G      G      R      L
C      I      E      A      L      N      C      E      H      O
D      E      S      S      T      E      S      P      F      O
O      R      O      D      O      C      E      A      N      D
1. What is it called when energy underground is released and the ground shakes? 
   (Circle the answer below)
   - Earthquake
   - Hurricane
   - Tornado

2. What is the tool that measures earthquakes called?  
   (Circle the answer below)
   - Seismograph
   - Earthquake machine
   - Thermometer
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?
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!