



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!



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?

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?

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

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

T	X	K	O	X	Z	A	Z	P	O
T	M	O	R	A	I	N	E	S	Z
Q	I	J	D	Y	S	G	Y	S	K
L	C	K	M	A	I	L	N	L	R
H	E	K	D	K	D	A	R	S	F
O	A	O	U	J	E	C	X	G	X
N	G	Q	P	C	A	I	A	T	U
W	E	G	O	L	V	E	N	G	C
N	Z	Y	G	B	L	R	F	E	T
N	O	A	H	S	F	L	O	O	D



Earthquakes

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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!

