Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Volcano Movies**

**We will watch these as a class. If you mix an answer you will have time in the volcano video station to rewatch the clip and find the answers.**

Directions: Click on the links below. Play the video and answer the questions as you watch

**Yellowstone:** <http://www.pbslearningmedia.org/resource/nvdv.sci.earth.yellowvolc-1/volcanism-at-yellowstone/>

1. Most of the world’s volcanoes are where?
2. Where is the Ring of Fire? What ocean and name some countries.
3. What plate is USA and Yellowstone Volcano on?
4. How long ago was Yellowstone’s largest eruption?
5. What are the hot springs and geysers signs of?
6. What is the scientific name of a person who studies earthquakes and volcanoes?
7. The seismometer does what?
8. As the \_\_\_\_\_\_\_\_\_\_\_ pushes up, the rock cracks it causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This activity happens \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ before a volcanic eruption.
9. Seismic waves travel \_\_\_\_\_\_\_\_\_\_\_\_ though hot molten rock and \_\_\_\_\_\_\_\_\_\_\_\_\_ through cold, solid rock.
10. How many seismometers are buried in Yellowstone?
11. What does the data show about the Yellowstone volcano?
12. Why is there a volcano at Yellowstone?

**Mount Pinatubo: Predicting a Volcanic Eruption** <http://www.pbslearningmedia.org/resource/ess05.sci.ess.earthsys.pinatubo/mount-pinatubo-predicting-a-volcanic-eruption/>

1. Where is the eruption?
2. Why do they measure SO2? What does it tell scientists?
3. What do the earthquakes under the mountains tell scientists?
4. What does an alert level 4 mean?
5. Did the volcano have a mini-volcano eruption first before the big one?
6. What date is the eruption?
7. How many feet did ash go into the air?
8. How wide is the explosion in miles?
9. How many people still died even though there were warnings?

Then click on the next half of the video **(,Mount Pinatubo: The Aftermath of a Volcanic Eruption)** <http://www.pbslearningmedia.org/resource/ess05.sci.ess.earthsys.lahar/mount-pinatubo-the-aftermath-of-a-volcanic-eruption/>

1. Describe what it looked like as the volcano erupted? (What did people see, hear, feel?)
2. How many families lost their homes?
3. What covers the land?
4. What happens to the farm animals?
5. Why are the mud flows that continue for 10 years dangerous?
6. How fast does the ash travel around the Earth?
7. The ash filters out sunlight for 5 years. How many degrees does this make Earth’s average temperature drop?

**Plate Tectonics: The Hawaiian Archipelago**

<http://www.pbslearningmedia.org/resource/ess05.sci.ess.earthsys.hawaii/plate-tectonics-the-hawai699ian-archipelago/>

1. Do we know for sure why the islands are there?
2. What is the theory of why we have the Hawaiian Islands?



1. Where do they think the heat comes from? (2 places)
2. How much magma (in centimeters) is pushing up each year?
3. How does the lava form islands?
4. Are the volcanoes dormant?
5. What is happening to the Pacific plate where Hawaii is located? How fast is it moving each year?
6. What will happen to the old volcanoes?
7. How deep down is the new volcano?
8. When will the new volcano reach the surface?