

CLASS COPY. DO NOT WRITE ON!!!

Location of Earthquakes and Volcanoes

Introduction: We have known about stars and planetary movements for thousands of years, but trying to understand what is going on in the planet right under our feet has taken a lot longer. We were not able to start piecing together what was going on in earth until people were able to travel more and start creating maps of the earth. Mapping allowed us to find patterns across the earth's surface that we could not see otherwise. One of the first things that gave us a clue as to what was going on was the location of volcanoes and earthquakes. Volcanoes and earthquakes are not random across the globe. We will map where volcanoes can be found and where earthquakes happen in order to figure out the pattern.

Procedures:

1. Set up your map with a title, scales, units, and direction.
2. Map the volcanoes with a blue pencil by marking its location with a dot on your world map.
3. Map the earthquakes with a red pencil by marking its location with a dot on your world map.
4. We will be using "Google Earth" to finish up the map. **Wait to do the questions** until we have finished the map using the computer.

Data:

Name of Volcano	Latitude	Longitude
Mauna Loa	19 N	156 W
Volcano Arenal	10 N	85 W
Volcano Canlaon	10 N	123 E
Mt. St. Helens	46 N	122 W
Mount Vesuvius	41 N	14 E
Miyake	34 N	140 E
Krakatau	6 S	105 E
Askja	65 N	16 W

Earthquakes

Latitude	Longitude		Latitude	Longitude
50 S	170 W		25 N	128 E
48 S	75 W		31 S	70 E
67 N	14 W		22 N	80 E
35 N	142 E		35 S	65 E
5 S	160 E		43 S	97 E
58 N	142 W		79 N	7 E
7 N	77 W			

Name: _____ Period: _____ Due Date: _____

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(You need to finish your map BEFORE you answer the questions.)

1. What part of the United States is most likely to experience earthquakes and volcanoes?

2. Which Continent would be the safest from earthquakes and volcanoes?

3. Does there seem to be any correlation between earthquakes and volcanoes?

Why or why not?

4. Describe the pattern of distribution of earthquakes and volcanoes on Earth.

5. Does there seem to be any correlation between mountain ranges and ocean ridges?

Why or why not?

6. How do earthquakes and volcanoes compare to the location of mountain ranges and ocean ridges?

7. Look at a map of Tectonic Plate Boundaries. How does the distribution of earthquakes and volcanoes compare to this map?

8. How does the location of mountain ranges and ocean ridges compare to the map of Tectonic Plate Boundaries?

In no less than two sentences, sum up what you see on the map you created. (Fluff sentences will not count!)

The World

