

Name _____

LAB: Locating Patterns of Earthquake and Volcano Distribution

Problem

What is the path of earthquake and volcano distribution worldwide?

Materials (per student)

Earthquake and volcano locations
World map showing latitude and longitude
2 different colored pencils

Procedure

1. Using the information in the table on earthquakes, plot the location of each earthquake on the map on the following page. Make a dot on the map for each earthquake using one of the colored pencils.
2. Using the information in the table on volcanoes, plot the location of each volcano on the map on the following page. Make a dot on the map for each volcano using the other colored pencil.
3. If directed by your teacher, also plot the location of recent earthquakes and volcanoes. Remember to use the same colored pencils as before.
4. Answer the questions on the back of this paper.

Earthquakes		Volcanoes	
Longitude	Latitude	Longitude	Latitude
120°W	40°N	150°W	60°N
110°E	5°S	70°W	35°S
77°W	4°S	120°W	45°N
88°E	23°N	61°W	15°N
121°E	14°S	105°W	20°N
34°E	7°N	75°W	0°
74°W	44°N	122°W	40°N
70°W	30°S	30°E	40°N
10°E	45°N	60°E	30°N
85°W	13°N	160°E	55°N
125°E	23°N	37°E	3°S
30°E	35°N	145°E	40°N
140°E	35°N	120°E	10°S
12°E	46°N	14°E	41°N
75°E	28°N	105°E	5°S
150°W	61°N	35°E	15°N
68°W	47°S	70°W	30°S

LAB: Locating Patterns of Earthquake and Volcano Distribution (continued)

Questions to answer:

1. Are earthquakes scattered randomly over the surface of the earth or are they concentrated in definite zones? _____
2. Are volcanoes scattered randomly or concentrated in definite zones?

3. Are most earthquakes and volcanoes located near the edges or near the center of continents? _____
4. Are there any active volcanoes located near your home? _____
5. Has an earthquake occurred near your home? _____
6. Describe any patterns you observe in the distribution of earthquakes and volcanoes. _____

7. What relationship exists between the locations of earthquakes & volcanoes?

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