

24a

Name: _____

Section: 4

PLOTTING SEISMIC ACTIVITY

Step 1: Plot the locations of twelve earthquakes using the coordinates provided on the right. Make a colorful "x" on the map to mark where each earthquake happened. Check the diamond next to each earthquake as you go so that you can be sure you aren't missing any.	
Earthquakes	
◊ 50° S, 80° W	
◊ 55° N, 160° W	
◊ 20° N, 50° W	
◊ 20° N, 160° W	
◊ 30° N, 80° E	
◊ 10° N, 130° E	
◊ 35° S, 120° W	
◊ 35° S, 20° W	
◊ 0° 85° W	
◊ 30° N, 140° E	
◊ 50° N, 125° E	
◊ 50° S, 160° E	

Step 2: Plot the locations of five active volcanoes using the coordinates provided on the right. Make a colorful circle on the map for each coordinate. Check the diamonds as you go to avoid missing any.	
Volcanoes	
Mt. St. Helens	◊ 46° N, 122° W
Kilauea	◊ 22° N, 160° W
Mt. Etna	◊ 31° N, 130° W
Sakurajima	◊ 30° N, 130° E
Lascar	◊ 23° S, 122° W

Step 3: Shade and label the mountain ranges shown on the board.
Step 4: Answer questions below.

Q1: Look at the map you made. Does it look like earthquakes are scattered randomly around the world, or do they seem to happen more in some areas? Support your statement with evidence.

The North West quadrant seems to have the most earthquakes. Second most would be North East.

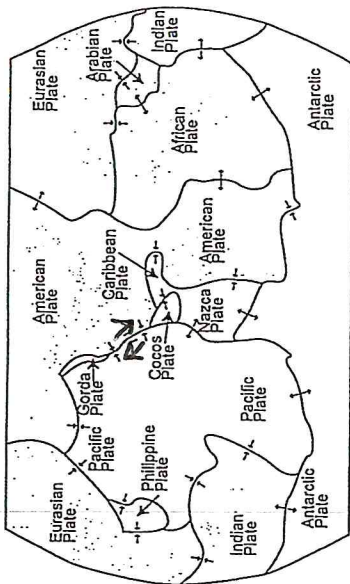
Q2: Look at the map you made. Does it look like volcanoes are scattered randomly around the world, or do they seem to happen more in some areas? Support your statement with evidence.

3 volcanoes are located in the North West. 1 volcano is in the South West and 1 in the North East.

Step 5: Compare the map you made to this map. Answer questions below.

Q3: Do you notice any similarities between the patterns of earthquakes and the tectonic plate boundaries? What? Support your claim with evidence.

According to my map... Earthquakes occur along plate boundaries. Mostly at transform boundaries.



Q4: Do you notice any similarities between the patterns of volcanoes and mountains and the tectonic plate boundaries? What? Support your claim with evidence.

Convergent Plate boundaries form volcanoes, mountains, and hills.

Q5: Based on the evidence you have shown, do you think there is a connection between continental drift and earthquakes, volcanoes, and mountain ranges? Write one paragraph. Be sure to use evidence to support your answer!

Continental Drift is the movement of plate tectonics which caused the continents to move away from each other. This caused a series of earthquakes and volcanoes.