

Mapping Earthquakes and Volcanoes

(Modified from Prentice Hall's *Inside Earth*)

Objective

In this lab, you will interpret data on the locations of earthquakes and volcanoes to find patterns.

Materials

Outline of world map showing latitude and longitude
4 pencils of different colors

Procedure

1. Use the information in the table to mark the location of each earthquake on the world map. Use one of the colored pencils to draw the letter E inside a circle at each earthquake location.
2. Use a second colored pencil to mark the locations of the volcanoes on the world map. Indicate each volcano with a small triangle (Δ).
3. Use a third colored pencil to lightly shade the areas in which earthquakes are found.
4. Use a fourth colored pencil to lightly shade the areas in which volcanoes are found.

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° E	30° S
175° E	41° S	175° E	39° S
121° E	17° N	123° E	38° N

Name: _____

Date: _____

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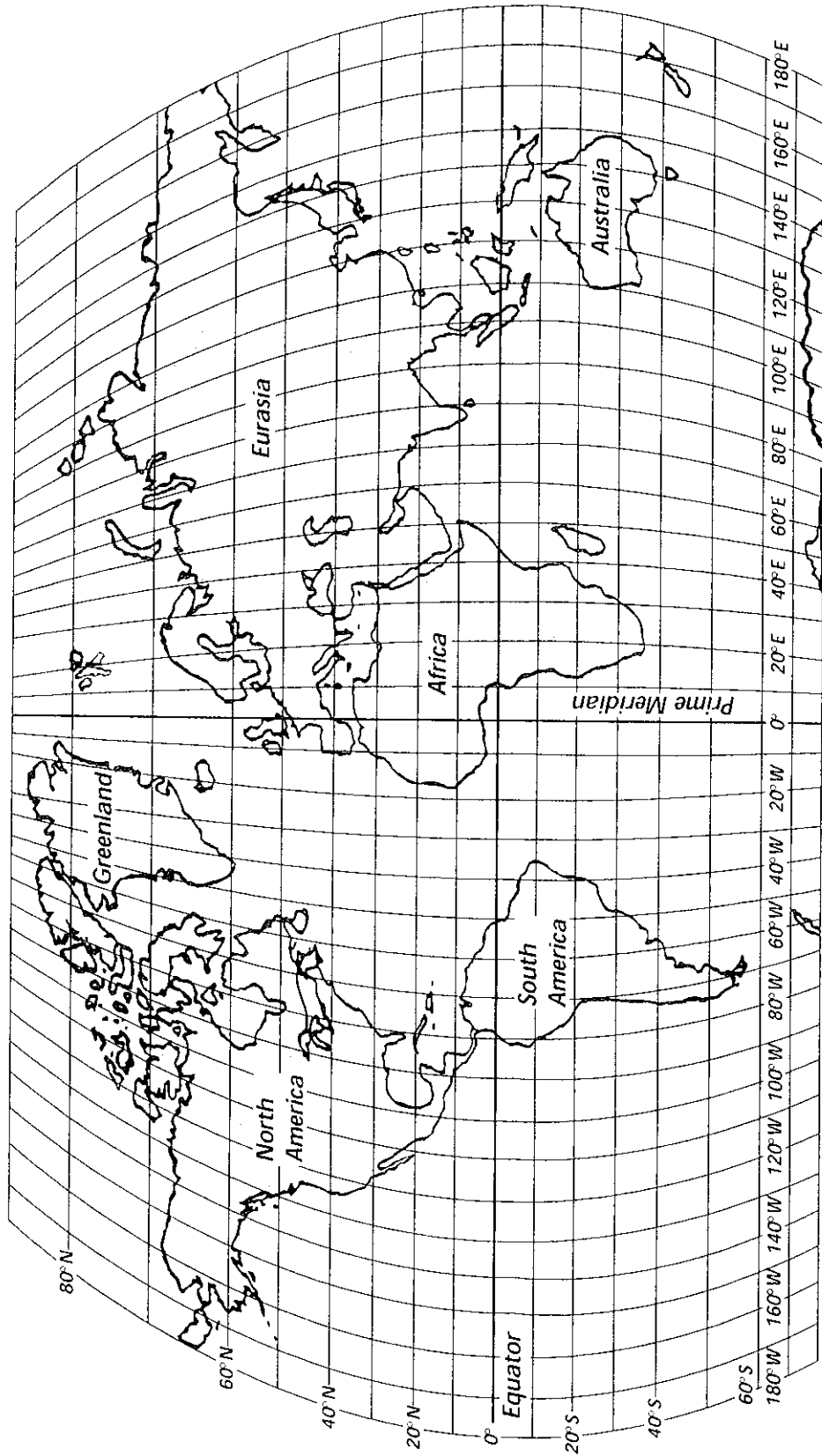
1. How are earthquakes distributed on the map? Are they scattered evenly or concentrated in zones? Explain.

2. How are earthquakes distributed on the map? Are they scattered evenly or concentrated in zones? Explain.

3. From your data, what can you infer about the relationship between earthquakes and volcanoes?

4. Suppose you added the locations of additional earthquakes and volcanoes to your map. Would the overall pattern of earthquake and volcanoes change? Explain in writing why you think the pattern would or would not change?

SKILLS LAB (continued)



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