

Name:

Class:

Distribution of Earthquakes and Volcanoes

Introduction:

The table below shows the distribution of the world's earthquakes and volcanoes. The goal of this activity is to look for patterns in their distribution.

Materials:

- World map
- Pencil crayons (or any other coloured writing utensil)

Procedure:

Using the data below, plot each point on the map. Use one colour for volcanoes and one for earthquakes.

Data:

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

Analysis:

1) Discuss the distribution of earthquakes and volcanoes around Earth. Are they spread evenly over the planet or are they clustered in one spot?

2) Discuss the distribution of earthquakes and volcanoes in relation to the continents. Are they at the edges? In the middle?