Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Plotting Earthquakes & Volcanoes 1*

**Looking for Patterns in Data**

**Purpose**:

To identify, describe, and analyze patterns in data collected on earthquakes and volcanoes.

**Procedure**:

1. Given this data:

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

2. Use map pencils to plot the data on the world map.

3. Use a green dot ● to represent the location of an earthquake and a red triangle ▲ to     represent the location of a volcano.

*Adapted from: www.msc.ucla.edu/oceanglobe/pdf/earth\_volcano.pdf*

