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*

