**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Pd.\_\_\_\_\_\_\_#\_\_\_\_\_\_**

**Earthquakes and Volcanoes: Main Ideas**

**Earthquakes**

1. Draw Figure 3 and label the parts of an Earthquake.
2. Which seismic waves cause the most damage during an earthquake?
3. What has been to make structures more seismic safe?
4. How can seismic waves be used to determine an earthquake’s epicenter?
5. What is the difference between the Richter Scale and the Mercalli Scale?
6. Use Table 1 to research the earthquakes that struck Indonesia in 2000, Loma Prieta, California in 1989, and Iran in 1990. Why was there such a great difference in the number of deaths?

**Volcanoes**

1. Along which type of plate boundary has the Soufrière Hills volcano formed?
2. Explain how volcanoes in Hawaii form.
3. Why do most deep earthquakes occur at convergent boundaries?
4. What is a hot spot?
5. Describe the 3 types of volcanoes.

Shield Volcano –

Cinder Cone Volcano –

Composite Volcano –

1. Why is silica-rich magma explosive?