Earthquakes and Volcanoes Study Guide

**Define the following**

-Seismic waves -Kilauea -Seismographs

-Liquefaction -Richter scale -tephra

- Pyroclastic flow -tsunami -Ring of Fire

-Crater -Vent -Caldera

-Epicenter-Focus (in relation to earthquakes

**Answer the following questions** *(use your text book)*

1. What kind of seismic waves cause the most damage and why?

2. What can change the speed of seismic waves?

3. Which is slower primary or secondary waves?

4. Where do earthquakes and volcanoes generally occur?

5. How do we measure and characterize volcanoes?

6. How do we measure and characterize earthquakes?

7. What does the Richter scale measure?

8. How can a volcanic eruption affect the climate?

9. What is a hot spot and what is an example?

10. Describe the three main types of volcanoes.

11. Why is it necessary to evacuate areas near a volcanic eruption? (specific)

12. Compare and contrast a quiet and violent eruption.

14. What is earthquake intensity?

15. Describe the motion of secondary and primary waves.

16. Where is the safest place to be during an earthquake?

\*You will have questions related to both our modeling activities

\*You will also have to make a claim as to what rating an earthquake should have using evidence and reasoning.