Dynamic Earth Study Guide

**Define the following**

-Seismic waves

-Seismographs

-Richter scale

-Seafloor spreading

-Ring of Fire

-Rift Valley

-Caldera

-Pyroclastic flow

-Epicenter

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

1. Describe convection currents, where do they occur and why are they important.

2. What can change the speed of seismic waves?

3. Which is slower primary or secondary waves?

4.Why does oceanic plates subduct while continental plate does not?

5. Where do earthquakes and volcanoes generally occur?

6. How do we measure and characterize volcanoes?

7. How do we measure and characterize earthquakes?

8. What does the Richter scale measure?

9. How can a volcanic eruption affect the climate?

10. How far do tectonic plates generally move per year?

11. Describe the three main types of volcanoes.

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

Bonus -

\*True or false? Volcanoes change the surface of Earth in many ways?

\*Draw a labeled diagram and describe one type of fault that we discussed in class.