

**Chapter 11**  
**Study Guide “Earthquakes and Volcanoes”**

1. What are faults?
2. List and describe the three types of faults.
3. Draw an illustration of a normal fault. Label the hanging wall and footwall.
4. Draw an illustration of a reverse fault. Label the hanging wall and footwall.
5. What are seismic waves?
6. Know characteristics of each type of wave: primary wave (P), secondary wave (S), and surface wave.
7. The \_\_\_\_\_ is the location where an earthquake begins, and the \_\_\_\_\_ is located directly above it on the surface of the Earth.
8. How do scientist measure the “magnitude” of an earthquake?
9. List two safety tips you should practice in case of an earthquake.
10. List and describe the characteristics of the three types of volcanoes.
11. Know the following definitions: lava, volcanoes, plates, composition, crater, eruption, epicenter, earthquakes, magnitude, P waves, Seismic waves, Surface waves, Richter Scale, S waves