Name:
Discovery Techbook: What are earthquakes?
Earthquakes (5:02) a. Where do earthquakes occur?
b. What is the focus?
c. What is the epicenter?
d. Give one factor that influences an earthquake.
Find the Temblor (Exploration)
 a. Give the times that the P and S waves arrive at Las Vegas Nevada.

____ Plate Tectonics: The Science of Earthquakes (4:20)

- a. What is causing the crustal plates to move?
- b. Why does pressure build up on a plate boundary?
- c. Where are the strongest vibrations located in an earthquake?

___ Quake it, Don't Shake it (Virtual Lab)

a. Quickly look through the lab and in the "experiment" portion of the lab give which type of <u>foundation</u> and <u>ground beneath the building</u> would work best for a wood frame structure in a strong earthquake?

Seismology and the Science of Earthquakes: Waves, Magnitude, and the Richter Scale. (3:23) a. What are the first waves to reach the surface?
b. What are the second waves to reach the surface?
c. How does the Richter Scale measure earthquake intensity?
Tsunami: Giant Seismic Ocean Waves (18 seconds)
Exploring Earth's Crust (1:46)
Understanding the Greenhouse Effect (2:31) a. Describe how the Greenhouse Effect warms the earth.

The Greenhouse Effect (2:36)

- a. What are the three main electromagnetic waves that come to the earth from the sun?
- b. What percentage of the sun's rays are absorbed by the atmosphere?
- c. What percentage of the sun's rays are reflected by the atmosphere?
- d. What percentage of the sun's rays are absorbed by the earth's surface and turn into heat?
- e. What energy does the Greenhouse Effect trap in the earth's atmosphere?