

Name: _____ Date: _____

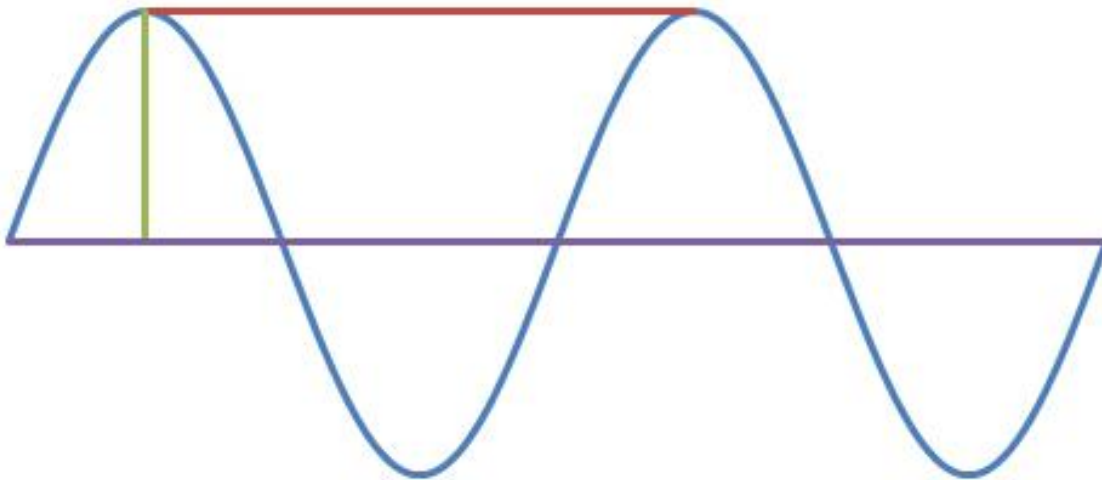
Engineering & Waves: Seismic Waves Worksheet

As we go through the presentation, answer the questions and fill in the blanks below:

Wave Basics

1. We will focus on one type of wave: _____ waves
2. A definition for a waves is _____

3. Label the following parts in the wave drawing below: **amplitude, crest, trough, wavelength**



4. *Circle the correct answer:* A long wavelength has a high or low frequency.
5. In a standing wave, what happens at the nodes? _____

Seismic Waves

6. Why do you think engineers are concerned about earthquakes?
7. Name two types of body waves: _____
8. Name two types of surface waves: _____
9. What type of seismic waves move at the greatest velocity (speed)? _____
10. What do engineers build and use to test how well a building will survive an earthquake?