

## Unit 2 Objectives: Earthquakes

By the time this unit is over, you should be able to:

- Identify all of the Earth's layers and know their unique characteristics
- Explain why the Earth is differentiated
- Explain the three different types of faults
- Explain what an earthquake is and why it occurs
- Define a wave and its characteristics
- Understand wave behaviors including reflection and refraction
- Identify transverse and longitudinal waves in springs and the earth (seismic waves)
- Identify the major fault lines in Northern California
- Explain how earthquakes are measured with intensity and magnitude scales
- Explain the important aspects of Earthquake Safety

### Unit 2 Vocabulary:

Transverse Waves

Focus

Longitudinal Waves

Epicenter

Amplitude

Richter Scale

Wavelength

Mercalli Scale

Reflection

Body Waves

Refraction

Surface Waves

Differentiation

P-Waves

Fault

S-Waves

Strike-Slip

Rayleigh Wave

Earthquake

Love Waves