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LINK: [Student Exploration: Earthquakes 1 – Recording Station](#)

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: body wave, earthquake, epicenter, fault, focus, P-wave, S-wave, seismic wave, seismogram, seismograph

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Have you ever experienced an **earthquake**? If so, what did it feel like?

No

2. Earthquakes are usually caused by the sudden movement of rocks along a **fault**, or fracture, in Earth's crust. The most famous fault in the U.S. is the San Andreas Fault in California.

What major cities are located near the San Andreas Fault?

San Bernardino and San Francisco.



Gizmo Warm-up

The *Earthquakes 1 – Recording Station* Gizmo simulates the **seismic waves** released by an earthquake. To begin, look at the key on the bottom left side of the Gizmo.

1. The **epicenter** of the earthquake is the point on Earth's surface closest to the **focus**, or origin, of the earthquake.

A. What symbol represents the epicenter?

The Circle

B. What symbol represents the recording station?

The triangle with the A.

2. Click **Play** (▶) and observe the seismic waves leaving the epicenter of the earthquake.

A. What types of seismic waves are released?

P- S waves.

B. Look at the **Recording station detector** on the upper left side of the Gizmo. What happens when the seismic waves hit the recording station?

The energy of the wave gets stronger.



Study Guide Part A Earthquakes Answers

Educational Testing Service

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the 'Educational Testing Service' text.

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