

Student Exploration: Earthquakes 1 – Recording Station

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**? no

If so, what did it feel like? _____

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 Francisco, Los Angeles

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?

B. What symbol represents the recording station?



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

A. What types of seismic waves are released? P-waves, 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?

Small waves were recorded when the P-wave hit the recording station, but large waves were recorded when the S-wave hit.



Gizmo Student Exploration Earthquake Recording Station Answers

Richard Bailey



Gizmo Student Exploration Earthquake Recording Station Answers:

Gizmo Student Exploration Earthquake Recording Station Answers Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Gizmo Student Exploration Earthquake Recording Station Answers**, a literary masterpiece that delves deep into the significance of words and their affect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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