

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.



Earthquake Recording Station Gizmo Answers

**Dan P. Hunt, NEVADA UNIV RENO
MACKAY SCHOOL OF MINES.**



Earthquake Recording Station Gizmo Answers:

Portable Magnetic Seismic Recording Station. Apparatus for Magnetic Recording of Earthquakes and Distant Explosions LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY DIV.,1962 A Selected Events Recorder for Seismic Applications Dan P. Hunt,NEVADA UNIV RENO MACKAY SCHOOL OF MINES.,1969 The document describes a developmental suitcase size portable seismic recording station specifically tailored to micro earthquake investigation The total instrument package including recorder 24 hour battery pack radio antenna seismometer and field wire weighs less than 100 pounds and can be hand carried by two people into remote areas not accessible by other means The recorder portion of the station is a two channel low speed instrumentation type magnetic tape recorder which was developed for this particular application This recorder has the unique capability to edit incoming data and record only those signals that exceed a preset amplitude threshold while retaining the low level preamble to the recorded event A time signal derived from a National Bureau of Standards WWVB broadcast is recorded with the data to provide accurate event time correlation Author **Dependence of the Duration of Strong Earthquake Ground Motion on Magnitude, Epicentral Distance, Geological Conditions at the Recording Station and Frequency of Motion** Mihailo Dimitrije Trifunac,B. D. Westermo,1978

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