

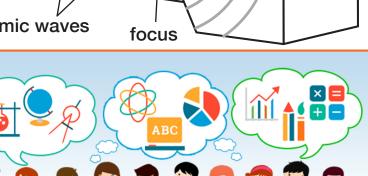
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The movement of tectonic plates creates forces that push and pull on the Earth's crust. When crustal rock breaks, stored energy is released and this energy travels through the Earth. This sudden release of energy is called an

earthquake.

Seismic waves are the vibrations from earthquakes that travel through the Earth.

seismic waves



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foot

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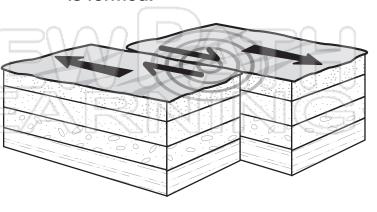
wall moves down relative to the footwall.

relative to the footwall, a reverse fault is formed.

g wall

epicenter

A strike-slip fault forms when rocks move past each other horizontally.



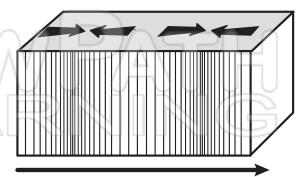


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Seismic Waves

Seismic waves are the vibrations from earthquakes that travel through the Earth and are recorded on instruments called seismographs. There are three different types of seismic waves released by an earthquake.

P-waves or primary waves are the first energy waves released. They are the fastest of the seismic waves and can travel through solids, liquids and gases. P-waves move back and forth, first compressing then stretching the rock.



direction of wave

S-wa secor slowe called an S | stress but ca

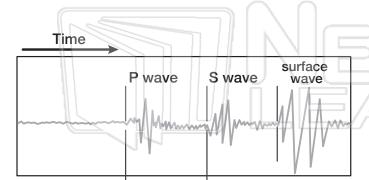


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The swave wave

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surface of the Earth up and down.



S-P interval

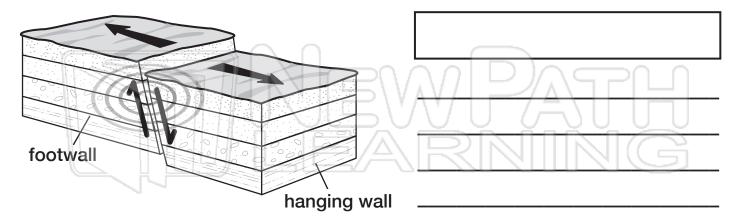
direction of wave

The recording of seismic waves is called a seismogram. Seismologists can use them to determine an earthquake's start time and its epicenter.



Name	Class	Data
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A fault is created when tension in Earth's crust pulls the rock layers apart. Identify and describe each type of fault below.





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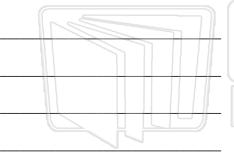
_____ Class _____ Date _

Complete the graphic organizer below. Describe the 3 different types of seismic waves.

P-waves

S-waves

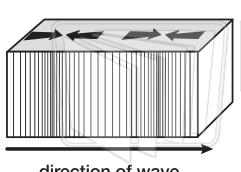
Surface waves

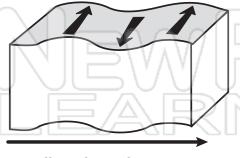


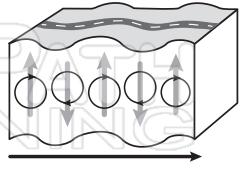


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direction of wave

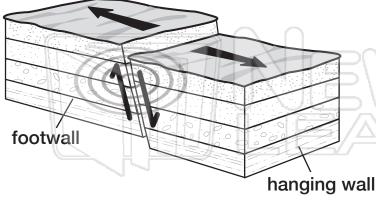
direction of wave

direction of wave



Answer Key Example

A fault is created when tension in Earth's crust pulls the rock layers apart. Identify and describe each type of fault below.



Normal Fault

Forms when a hanging wall moves down relative to the footwall.



move past each other horizontally.



Answer Key Example

Complete the graphic organizer below. Describe the 3 different types of seismic waves.

P-waves

S-waves

Surface waves

First energy waves

released from

earthquake. Fastest

seismic waves. They

move back and

Second energy waves

released. Slower than

P-waves. They move

in an S pattern through

rock creating shear

Slowest and most destructuve seismic

waves. They travel

along the surface

of Earth's crust in a

fortl stre

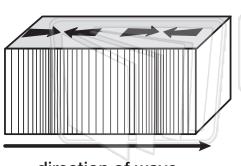
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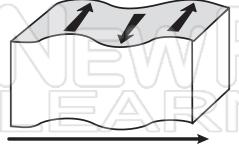
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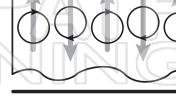


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direction of wave

direction of wave

direction of wave