District Assessment One Study Guide

The volcanoes on the West Coast of the USA are formed as a result of _subduction____ of oceanic under continental crust.

Scientists use the arrival times of __seismic waves__ to calculate the distance to the epicenter, and _three__ seismic stations are needed to triangulate an epicenter.

The youngest rock on a _mid-ocean ridge is found closest to where magma reaches the surface of Earth.

The shape of the _continents__ provides evidence to support the theory that Earth's continents were once __connected_____.

The Sierra Nevada mountain range was formed by the _convergence___ of two tectonic plates of equal density, causing the plates to bend, fold, and _lift____.

Volcanoes are located in areas where _magma__ is forced upward through Earth's surface.

The mantle consists of hot, __convecting___ material.

The Andes mountains were formed by __subduction__ when two plates _collided____.

Both earthquakes and volcanoes are caused by _plate movement___.

The formation of new crust at the Mid-Atlantic Ridge will push __N. America__ and Eurasia apart.

The best evidence for energy inside Earth is _seismic waves___.

Newly formed oceanic crust _cools_ and spreads apart along _mid-ocean ridges___.

At the San Andreas fault, plates are _sliding__ past each other.

The best evidence for the interior of the Earth is the __seismic__ data.

The form of heat transfer where atoms are touching is called _conduction__.

Scientists believe that gravity and _convection__ currents in the mantle are responsible for Earth's plate movements.

Heat moves through _fluids__ by convection, creating a flow of matter.