

Vocabulary Words Plate Tectonics

Tectonic plate	Lithosphere	Asthenosphere	Fault
Diverging center	Converging center	mid-ocean ridge	subduction
hot spot	sliding boundary	epicenter	focus or foci
elastic rebound theory	S- waves	P-waves	Compressional waves
Shadow zone	Moho	Rift valley	spreading center
Dike	Sill	convection currents	magnetism/polarity
Fold	deep sea trench	tephra	law of cross cutting
Earthquake	primary waves	secondary waves	shear waves
Seisomogram	seismograph	time travel graph	Richter scale
Magnitude	uplifting	overturning	tsunami

**Be able to identify topographic features that should occur at each location of plate movement.

** Be able to identify whether a plate is continental or oceanic; give relative densities and know which plate would subduct at converging centers

** Be able to identify high frequency locations for volcanoes, earthquakes and plate boundaries.

**Be able to describe how is magnetism related to ocean floors and ocean floor spreading and relative ages of rock

at various locations on a line which crosses a mid-ocean ridge

** Be able to identify temperature, density, pressure and matter state of each of the earth's layers using ESRT

** Be able to describe a hot spot and how it is made; locate 2 on ESRT.

** Be able to identify locations of spreading, converging and sliding boundaries using the ESRT

** Be able to calculate or locate the epicenter given seismographs or stations times for P and S waves

** Be able to calculate time differences or travel time between/for P, S waves.

** Be able to safety state behaviors that one should do in times of earthquakes.