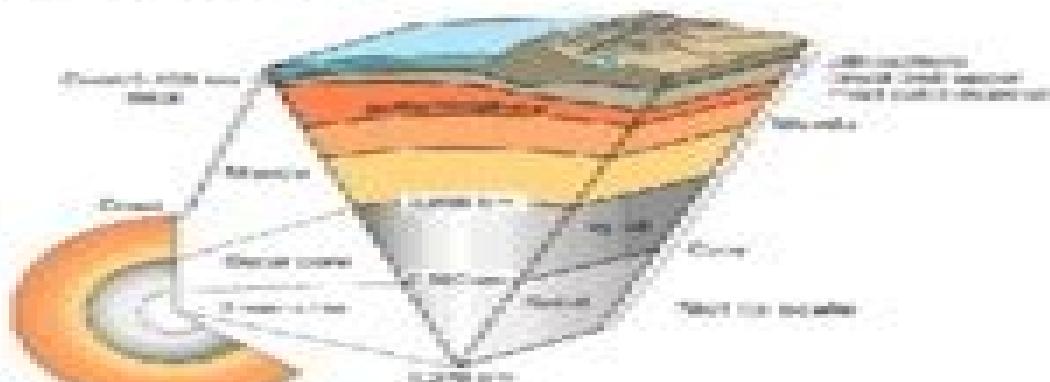


Plate Tectonics Study Guide

Earth's Interior Layers



To review:

- The Earth is not entirely the same all the way throughout the inside of the planet. Instead, Earth is made up of distinct layers that have their own characteristics and composition. This means they are made of different materials and behave differently from one another.
- We can use seismic waves (shakes caused by an event) inside of the Earth's interior to learn about what is inside. These waves travel through the Earth's interior, reflect off layers, and come back to the seismometer.
- These waves travel at different speeds and cause different things.
 - Continental crust is thicker than the oceanic crust. It is thicker and made of denser (heavier) continental crust. This means that it is cooler and denser than a continental plate. It will sink. It is process called **subduction**.
 - Continental crust is thicker than land. It is thicker and denser than oceanic crust. This means that it is cooler and denser than an oceanic plate. It will "override" the oceanic plate (go on top of it).
- Continental crust is the thickest layer of the Earth's interior, the mantle. If this crust is melted but behaves like it is liquid due to being too hot, it will melt under pressure. There are two distinct parts of the mantle:
 - The upper mantle (asthenosphere) and the lower mantle.
- The asthenosphere and crust stick together – this is called the lithosphere. When we refer to tectonic plates, we are referring to the lithosphere.
- Plate movement is caused by convection currents in the lower mantle.

• If the lower mantle is hot, then it will move up. If it is cold, it will move down.

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Alan H. Strahler,Arthur N. Strahler

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