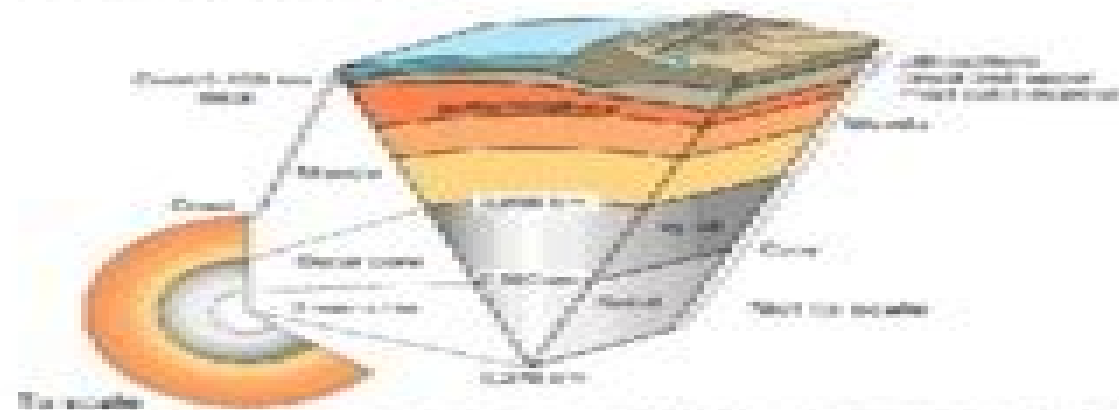


Plate Tectonics Study Guide

Earth's Interior Layers



- 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 do not know for sure what any of the layers inside of Earth look like because we have not been able to look inside but scientists studied how earthquakes moved through the Earth in order to infer what the inside of the Earth is like.
- There are two different types of crust – oceanic and continental.
 - Oceanic crust is found under the oceans. It is thinner and more dense than continental crust. This means that if it comes into contact with a continental plate, it will sink in a process called **subduction**.
 - Continental crust is found on land. It is thicker and less dense than oceanic crust. This means that if it comes into contact with an oceanic plate, it will 'over-ride' the plate and go on top of it.
- Underneath the crust is the thickest layer of the Earth's interior, the mantle. This area is solid but behaves like a liquid due to being so hot and 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.

In the lower mantle, rock heats up and cools down. Mass of rock is able to rise up

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Tobias Bleicker



Plate Tectonics Study Guide:

Whispering the Techniques of Language: An Mental Quest through **Plate Tectonics Study Guide**

In a digitally-driven earth wherever displays reign great and quick interaction drowns out the subtleties of language, the profound strategies and emotional nuances concealed within phrases usually get unheard. Yet, located within the pages of **Plate Tectonics Study Guide** a charming literary value blinking with fresh feelings, lies an extraordinary quest waiting to be undertaken. Written by a talented wordsmith, this enchanting opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the very material of every word. Within the emotional depths of the emotional evaluation, we shall embark upon a genuine exploration of the book is key subjects, dissect its fascinating publishing design, and yield to the effective resonance it evokes serious within the recesses of readers hearts.

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