

# 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

# Plate Tectonics Study Guide

**BM King**



## **Plate Tectonics Study Guide:**

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

In a digitally-driven world where screens reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and emotional nuances hidden within words usually get unheard. However, situated within the pages of **Plate Tectonics Study Guide** a fascinating fictional prize sporting with organic feelings, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, this marvelous opus invites readers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within ab muscles fabric of each word. Within the emotional depths with this poignant evaluation, we shall embark upon a heartfelt exploration of the book is primary themes, dissect their captivating publishing fashion, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

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