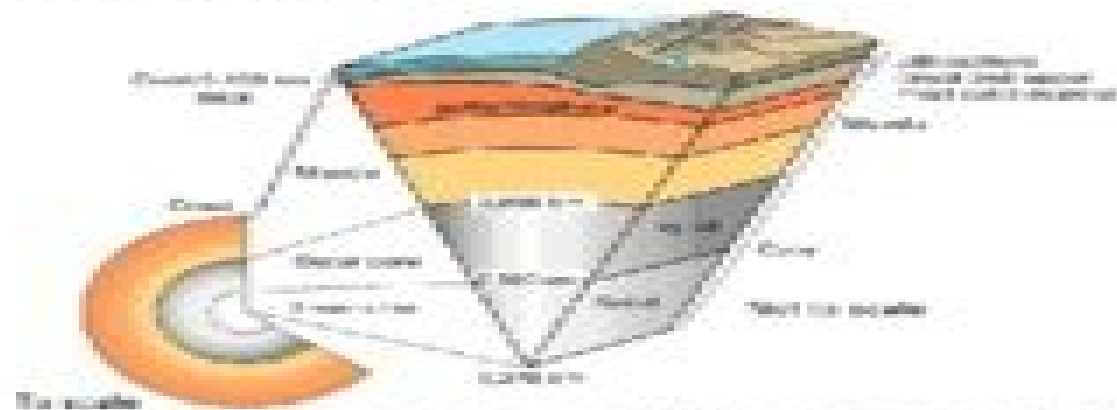


Plate Tectonics Study Guide

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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Table of Contents Science Holt Study Guide Plate Tectonics

1. Understanding the eBook Science Holt Study Guide Plate Tectonics
 - The Rise of Digital Reading Science Holt Study Guide Plate Tectonics
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Holt Study Guide Plate Tectonics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Holt Study Guide Plate Tectonics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Holt Study Guide Plate Tectonics
 - Personalized Recommendations
 - Science Holt Study Guide Plate Tectonics User Reviews and Ratings
 - Science Holt Study Guide Plate Tectonics and Bestseller Lists
5. Accessing Science Holt Study Guide Plate Tectonics Free and Paid eBooks
 - Science Holt Study Guide Plate Tectonics Public Domain eBooks
 - Science Holt Study Guide Plate Tectonics eBook Subscription Services
 - Science Holt Study Guide Plate Tectonics Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Science Holt Study Guide Plate Tectonics Compatibility with Devices
 - Science Holt Study Guide Plate Tectonics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Holt Study Guide Plate Tectonics
 - Highlighting and Note-Taking Science Holt Study Guide Plate Tectonics
 - Interactive Elements Science Holt Study Guide Plate Tectonics
8. Staying Engaged with Science Holt Study Guide Plate Tectonics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Holt Study Guide Plate Tectonics
9. Balancing eBooks and Physical Books Science Holt Study Guide Plate Tectonics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Holt Study Guide Plate Tectonics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Science Holt Study Guide Plate Tectonics
 - Setting Reading Goals Science Holt Study Guide Plate Tectonics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Science Holt Study Guide Plate Tectonics
 - Fact-Checking eBook Content of Science Holt Study Guide Plate Tectonics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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