

## Plate Tectonics

# Earth's Tectonic Plates

## Plate Tectonics

The **lithosphere** is divided into a dozen major and several minor **plates**. The movement of the plates over Earth's surface is called **plate tectonics**. These plates can be composed in a combination of oceanic lithosphere or continental lithosphere. An earthquake's **epicenter** is the point on Earth's surface directly above the place where the earthquake occurs. Earthquake epicenters outline the plates because earthquakes occur everywhere plates come into contact with each other.

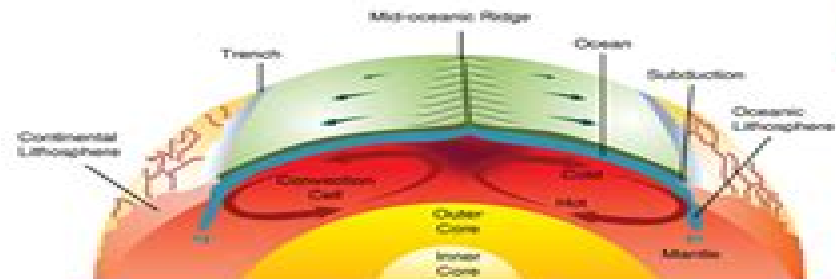
### Study Tip

You can replicate plate tectonics with a piece of clay: mash two flat pieces together and to have a convergent boundary, pull them apart to see a divergent boundary, and slide them together to see a transform boundary.

## How Plates Move

Mantle convection drives plate movement

1. Hot mantle from two adjacent cells rises at the ridge axis, creating new ocean crust
2. The top part of the convection cell moves horizontally away from the ridge crest
3. The outer parts of the convection cells plunge down into the deeper mantle, which also drags oceanic crust with it
4. The material sinks to the core and moves horizontally
5. Material heats up and reaches the zone where it rises again



*Hot material rises at mid-ocean ridges and sinks at deep-sea trenches, which keeps the plates moving along the Earth's surface*

## Plate Boundaries

**Plate Boundaries** are the areas where two plates meet. The type of plate boundary and the type of crust found on the boundary determines what kinds of geologic activity are present.

Boundary Type	Description
<b>Divergent Plate Boundary</b>	Two plates move away from each other
<b>Convergent Plate Boundary</b>	Two plates move towards each other
<b>Transform Plate Boundary</b>	Two plates slip past each other

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## **Table of Contents Holt Earth Science Study Guide Tectonic Plates**

1. Understanding the eBook Holt Earth Science Study Guide Tectonic Plates
  - The Rise of Digital Reading Holt Earth Science Study Guide Tectonic Plates
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Earth Science Study Guide Tectonic Plates
  - 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 Holt Earth Science Study Guide Tectonic Plates
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Earth Science Study Guide Tectonic Plates
  - Personalized Recommendations
  - Holt Earth Science Study Guide Tectonic Plates User Reviews and Ratings
  - Holt Earth Science Study Guide Tectonic Plates and Bestseller Lists
5. Accessing Holt Earth Science Study Guide Tectonic Plates Free and Paid eBooks
  - Holt Earth Science Study Guide Tectonic Plates Public Domain eBooks
  - Holt Earth Science Study Guide Tectonic Plates eBook Subscription Services
  - Holt Earth Science Study Guide Tectonic Plates Budget-Friendly Options
6. Navigating Holt Earth Science Study Guide Tectonic Plates eBook Formats

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

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