

Ch. 9 Plate Tectonics: Study Guide

Vocabulary

9.4 Earth's Layered Structure: crust, p. 233; mantle, p. 234; lithosphere, p. 234; asthenosphere, p. 235; outer core, p. 235; inner core, p. 235;

9.1 Plate Tectonics: continental drift, p. 248; Pangaea, p. 248; plate tectonics, p. 254; divergent boundary, p. 255; convergent boundary, p. 255; transform fault boundary, p. 255; ridge, p. 256; seafloor spreading, p. 256; subduction zone, p. 261; trench, p. 261; paleomagnetism, p. 265; hot spot, p. 268

Reviewing Content

Choose the letter that best answers the question or completes the statement.

1. What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?

Asthenosphere

2. Where do most of Earth's earthquakes, volcanoes, and mountain building occur?

At plate boundaries

3. Alfred Wegener is best known for what hypothesis? List facts to support his theory.

His hypothesis of continental drift, which is supported by: same rocks, same fossils, and same plants were found on different continents. Also, some continents looked as if they fit together like puzzle pieces.

4. Complex mountain systems such as the Himalayas are the result of:

Two continental plates converging; "continental-continental convergence"

5. What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to descend into the mantle beneath an overriding plate?

Ocean and continental crust with a convergent plate boundary.

6. What was one main objection to Wegener's hypothesis of continental drift?

Mechanism of continental drift: He could not prove the continents were moving.

7. Which one of the following was NOT used as support of Wegener's continental drift hypothesis?

Paleomagnetism

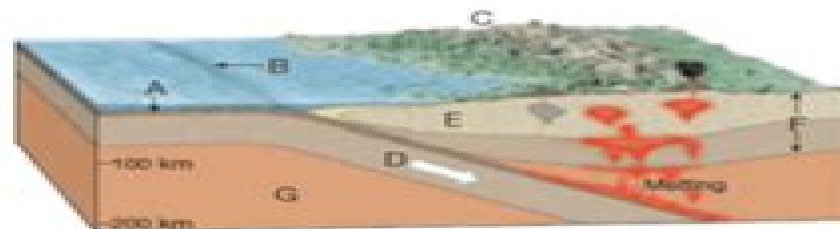
8. At what type of plate boundary do plates move apart, resulting in the upwelling of material from the mantle to create new seafloor?

A divergent plate boundary

Use the diagram below to answer Questions

9. What feature is labeled B?
 - a. a continental volcanic arc
 - b. a trench
 - c. continental lithosphere
 - d. an ocean ridge

10. The process occurring at the location labeled D is
 - a. oceanic lithosphere being created.
 - b. continental lithosphere being created.
 - c. a continental-continental collision occurring.
 - d. oceanic lithosphere being subducted.



Theory Of Plate Tectonics Study Guide Answers

Raymond Scupin



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Table of Contents Theory Of Plate Tectonics Study Guide Answers

1. Understanding the eBook Theory Of Plate Tectonics Study Guide Answers
 - The Rise of Digital Reading Theory Of Plate Tectonics Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Theory Of Plate Tectonics Study Guide Answers
 - 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 Theory Of Plate Tectonics Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Theory Of Plate Tectonics Study Guide Answers
 - Personalized Recommendations
 - Theory Of Plate Tectonics Study Guide Answers User Reviews and Ratings

- Theory Of Plate Tectonics Study Guide Answers and Bestseller Lists
- 5. Accessing Theory Of Plate Tectonics Study Guide Answers Free and Paid eBooks
 - Theory Of Plate Tectonics Study Guide Answers Public Domain eBooks
 - Theory Of Plate Tectonics Study Guide Answers eBook Subscription Services
 - Theory Of Plate Tectonics Study Guide Answers Budget-Friendly Options
- 6. Navigating Theory Of Plate Tectonics Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Theory Of Plate Tectonics Study Guide Answers Compatibility with Devices
 - Theory Of Plate Tectonics Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Theory Of Plate Tectonics Study Guide Answers
 - Highlighting and Note-Taking Theory Of Plate Tectonics Study Guide Answers
 - Interactive Elements Theory Of Plate Tectonics Study Guide Answers
- 8. Staying Engaged with Theory Of Plate Tectonics Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Theory Of Plate Tectonics Study Guide Answers
- 9. Balancing eBooks and Physical Books Theory Of Plate Tectonics Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Theory Of Plate Tectonics Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Theory Of Plate Tectonics Study Guide Answers
 - Setting Reading Goals Theory Of Plate Tectonics Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Theory Of Plate Tectonics Study Guide Answers
 - Fact-Checking eBook Content of Theory Of Plate Tectonics Study Guide Answers
 - 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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