

# 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. 246; Pangaea, p. 246; 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

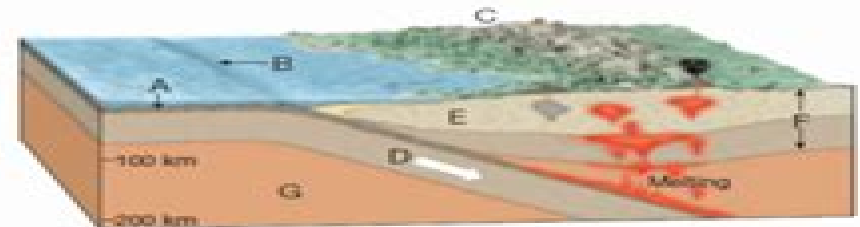
## Reviewing Content

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

- What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?  
a. Crust  
**b. Asthenosphere**  
c. outer core  
d. inner core
- Most of Earth's earthquakes, volcanoes, and mountain building occur  
a. in the center of continents.  
b. in the Himalayas.  
**c. at plate boundaries.**  
d. at volcanic island arcs.
- Alfred Wegener is best known for what hypothesis?  
a. plate tectonics  
b. seafloor spreading  
**c. continental drift**  
d. subduction
- Complex mountain systems such as the Himalayas are the result of  
a. oceanic-oceanic convergence.  
b. hot spots.  
**c. continental volcanic arcs.**  
d. continental-continental convergence.
- 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?  
**a. oceanic-continental convergent**  
b. Divergent  
c. transform fault  
d. continental-continental convergent
- One of the main objections to Wegener's hypothesis of continental drift was that he was unable to provide an acceptable  
a. rate of continental drift.  
b. date of continental drift.  
**c. mechanism of continental drift.**  
d. direction of continental drift.
- Which one of the following was NOT used as support of Wegener's continental drift hypothesis?  
a. fossil evidence  
**b. Paleomagnetism**  
c. the fit of South America and Africa  
d. ancient climates
- 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**  
b. Convergent  
c. transform fault  
d. Subduction

Use the diagram below to answer Questions

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



# Plate Tectonics Gizmo Answers

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## **Table of Contents Plate Tectonics Gizmo Answers**

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

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