

# 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

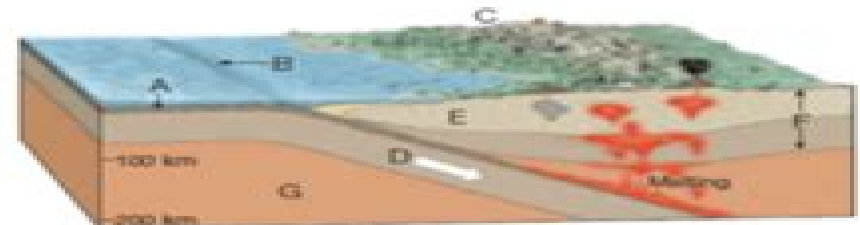
## Reviewing Content

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

- 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 Answer Key

**Annelies Wilder-Smith**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Plate Tectonics Answer Key:**

## **Plate Tectonics Answer Key** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Plate Tectonics Answer Key**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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