

# 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. 258; seafloor spreading, p. 259; 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 Answers

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