

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. 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.



Answers Plate Tectonics Exercise 3

Rachel Sandford



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