

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

Use the diagram below to answer Questions

- What feature is labeled B?
 - ☒ a continental volcanic arc
 - ☐ a trench
 - ☐ continental lithosphere
 - ☐ an ocean ridge
- The process occurring at the location labeled D is
 - ☐ oceanic lithosphere being created.
 - ☐ continental lithosphere being created.
 - ☐ a continental-continental collision occurring.
 - ☒ oceanic lithosphere being subducted.



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