Name: Answer Key Period:

Ch. 9 Plate Tectonics: Study Guide

Vocabulary

8.4 Earth's Layered Structure: crust, ρ. 232 montile, ρ. 234 lithosphere, ρ. 234 asthenosphere, ρ. 235 outer core, ρ. 235 inner core, ρ. 235.

9.1 Plate Tectonics: continental drift, ρ. 248 Pangaea, ρ. 246, plate tectonics, ρ. 254 divergent boundary, ρ. 255; convergent boundary, ρ. 255; transform fault boundary, ρ. 255, ridge, ρ. 256 seafloor spreading, ρ. 259; subduction zone, ρ. 261 trench, ρ. 261 paleomagnetism, ρ. 265, hot spot, ρ. 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 c. outer core
Asthenosphere d. inner core

- Most of Earth's earthquakes, volcanoes, and mountain building occur.
 at plate boundaries.
 b. in the Himalayas.
- Alfred Wegener is best known for what hypothesis?
 a. plate tectonics
 b. seafloor spreading
 continental drift subduction
- Complex mountain systems such as the Himalayas are the result of a. oceanic-oceanic convergence.
 b. hot spots.
 d. continental volcanic arcs.
 d. 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 transform fault
 - Divergent 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.
 c.) mechanism of continental drift.
 - b. date of continental drift.

 direction of continental drift.
- Which one of the following was NOT used as support of Wegener's continental drift hypothesis?
 c. the fit of South America and Africa
 Paleomagnetism
 d. ancient climates
- At what type of plate boundary do plates move apart, resulting in the upwelling of material from the mantle to crease new seafloor?
 - cregte new seafloor?

 Divergent
 Convergent
 Convergent

Use the diagram below to answer Questions

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

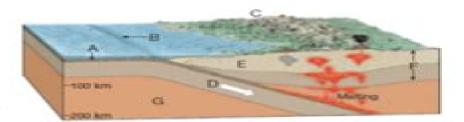


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