# Ch. 9 Plate Tectonics: Study Guide

#### Vocabulary

8.4 Earth's Layered Structure: crust, ρ. 232; mantie, 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. 248, plate tectonics, ρ. 254; divergent boundary, ρ. 255; convergent boundary, ρ. 255; transform fault boundary, ρ. 255, ridge, ρ. 258; 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
   d. inner core
- Most of Earth's earthquakes, volcanoes, and mountain building occur
   a. in the center of continents.
   b. in the Himalayas.
- Alfred Wegener is best known for what hypothesis?
   a. plate tectonics
   b. seafloor spreading
   d. subduction
- Complex mountain systems such as the Himalayas are the result of a. oceanic-oceanic convergence.
   b. hot spots.

   Complex mountain systems such as the Himalayas are the result of continental volcanic arcs.
   continental convergence.
- What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to descard into the mantle beneath an overriding plate?
   a oceanic-continental convergent
   c. transform fault
  - D. Divergent d. 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.

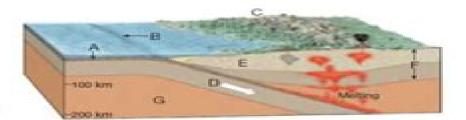
   Which one of the following was NOT used as support of Wegener's continental drift hypothesis?
- a. fossil evidence c. the fit of South America and Africa
  b. Paleomagnetism d. ancient climates
- At what type of plate boundary do plates move apart, resulting in the upwelling of material from the mantle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

Use the diagram below to answer Questions

Convergent

- What feature is labeled 87
   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.
   b. continental lithosphere being created.
   a continental continental collision occurring.

oceanic lithosphere being subducted.



Subduction

# **Answer Virginia Department Of Education Plate Tectonics**

**RJ Shavelson** 

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