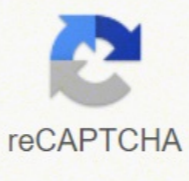




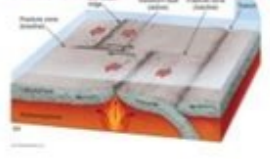
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**Next**

Plate Tectonics Review Questions

1. What is plate tectonics in your own words?  
The Earth's crust is broken into pieces called "lithospheric plates" that "float" over the asthenosphere. These plates move relative to one another as magma circulates underneath. As the plates move, they affect one another by placing stress along the boundaries. Plates exhibit 3 types of motion; they can divide, collide, or slide past each other.
2. What are the three types of plate boundaries?  
a. Divergent b. Convergent c. Transform
3. What kind of motion would be expected at a convergent plate boundary?  
The plates move together - squeezing the rock and/or making the rock sink back down into the mantle.
4. Generally, how fast is the motion of the plates? 2-3 cm per year or 1 inch per year
5. What kind of motion would be expected at a transform fault boundary?  
The plates slide past and along each other horizontally.
6. What drives the motion of the plates?  
Heat from the core of Earth is being transferred to the colder surface. As this material circulates inside the asthenosphere (hotter material moves toward the crust and colder material moves toward the core), the solid lithosphere moves along with the convection currents.
7. What is the name of the process that occurs at the mid-ocean ridge?  
Sea-floor Spreading (SFS)
8. What kind of motion would be expected at a divergent boundary?  
The plates are dividing and moving apart from one another.
9. Describe what may become of the East African Rift Valley in millions of years.  
The rift valley is caused by tension along a divergent boundary. Over time, the valley will continue to widen and separate eventually forming a new ocean with a mid-ocean ridge at the center.
10. What is happening to Iceland?  
Iceland was built along the mid-Atlantic ridge and is separating about 1 inch per year. The island is being built from an east to west direction.
11. What is going on in the middle of the Atlantic Ocean?  
Sea-Floor Spreading is creating a mid-ocean ridge widening the Atlantic Ocean.
12. On average, in ten years, how much bigger will the Atlantic Ocean be? About 10 inches
13. How could two plates moving in the same direction cause a transform fault?  
A fracture zone along a mid-ocean ridge has different rates of spreading. The area between two spreading areas could be moving horizontally opposite to each other as a result.



Name \_\_\_\_\_ Answer Key \_\_\_\_\_ Period \_\_\_\_\_

Ch. 9 Plate Tectonics: Study Guide

Vocabulary

9.1 Earth's Layered Structure: crust, p. 223 mantle, p. 224 lithosphere, p. 224 asthenosphere, p. 225 outer core, p. 225 inner core, p. 225  
9.2 Plate Tectonics: continental drift, p. 248 Pangaea, p. 246 plate tectonics, p. 254 divergent boundary, p. 255 convergent boundary, p. 255 transform fault boundary, p. 255 ridge, p. 256 sea-floor spreading, p. 256 subduction zone, p. 261 trench, p. 261 paleomagnetism, p. 265, hot spot, p. 268

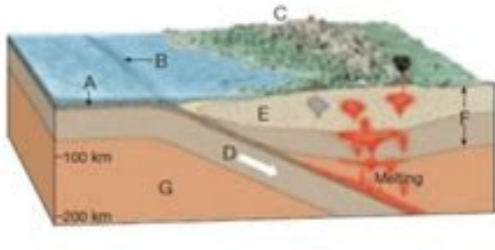
Reviewing Content

Choose the letter that best answers the question or completes the statement.

1. What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?  
c. Crust  
a. Asthenosphere  
b. Outer core  
d. Inner core
2. 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.
3. Alfred Wegener is best known for what hypothesis?  
a. plate tectonics  
b. sea-floor spreading  
c. continental drift  
d. subduction
4. 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.
5. What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to be pushed into the mantle beneath an overlying plate?  
a. oceanic-continental convergent  
b. divergent  
c. transform fault  
d. continental-continental convergent
6. 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.
7. 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
8. At what type of plate boundary do plates move apart, resulting in the upwelling of material from the mantle to create the sea-floor?  
a. Divergent  
b. Convergent  
c. Transform fault  
d. Subduction

Use the diagram below to answer Questions

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



Name \_\_\_\_\_ Date \_\_\_\_\_

Section 9.1 Continental Drift

The oceanic crust is lighter than continental crust and is more plastic.

Reading Strategy

Summarizing: Write a brief summary of the main ideas of the text.

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Name \_\_\_\_\_ Date \_\_\_\_\_

Class \_\_\_\_\_

Plate Tectonics

Directions: Write the correct vocabulary word on each of the lines below.

1. \_\_\_\_\_ The lithosphere is broken into many small and large slabs of rocks called \_\_\_\_\_.
2. \_\_\_\_\_ The process by which the ocean floor sinks beneath a deep-ocean trench and back into the mantle is called \_\_\_\_\_.
3. \_\_\_\_\_ The place where two plates move apart is called a \_\_\_\_\_ boundary.
4. \_\_\_\_\_ A \_\_\_\_\_ is a long chain of mountains that is found underwater.
5. \_\_\_\_\_ The process that continually adds new material to the ocean floor is called \_\_\_\_\_.
6. \_\_\_\_\_ A \_\_\_\_\_ is a deep underwater canyon.
7. \_\_\_\_\_ The place where two plates slip past each other is called a \_\_\_\_\_ boundary.
8. \_\_\_\_\_ A well-tested concept that explains a wide range of observations is called a \_\_\_\_\_.
9. \_\_\_\_\_ The place where two plates come together is called a \_\_\_\_\_ boundary.

CONVERGENT	SUBDUCTION	TECTONIC PLATES	TRANSFORM
MID-OCEAN RIDGE	DIVERGENT	SEA-FLOOR SPREADING	SCIENTIFIC THEORY
DEEP-OCEAN TRENCH			





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