Brainpop—Plate Tectonics

Name:

Period:

Watch the Brainpop on plate tectonics, then fill out the sheet below. You can also use Chapter 9, Section 2 of your textbook to help you.

- 1. In the phrase, "Earth's mantle is composed of molten rock," what does molten mean?
 - a. orange b. icy c. solid

- d. melted
- 2. If Earth was an apple, which part would be the crust?
 - a. the core
- c. the skin
- b. the seeds
- d. the stem
- 3. What has to happen before rock from Earth's mantle becomes a new piece of crust?
 - a. it has to cool
 - b. it has to heat up
 - c. it has to drift
 - d. it has to crack
- 4. Which term best describes the movement of continents?
 - a. rapid
- c. nonexistent
- b. gradual
- d. quick
- 5. At convergent boundaries, one plate is sometimes subducted below another. What is the best definition of subduction?
 - a. moving from side to side
 - b. pulling apart
 - c. pushing upward
 - d. sliding under

- 6. Where would you be most likely to find a boundary between a continental & an oceanic plate?
 - a. in the center of the Pacific Ocean
 - b. in the center of North America
 - c. off the west coast of North America
 - d. at the boundary between Canada & U.S.A.
- 7. Which geological feature would you most likely find at a convergent boundary?
 - a. a mountain range
 - b. an island
 - c. a desert
 - d. a river
- 8. How is a transform boundary different from a convergent boundary?
 - a. plates move apart at transform boundaries, and toward each other at convergent boundaries
 - b. plates move underneath one another at transform boundaries, and over one an other at convergent boundaries
 - c. plates move toward each other at convergent boundaries, and side-to-side at transform boundaries
 - d. continental drift does not occur along convergent boundaries, but it does occur at transform boundaries



Look at the map to the left. Why does Earth look different in this map?

Work: 10 points, Assessment 5 points

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Which observations supported Alfred V on each line that is in front of a correct		
Shapes of continents resemble	puzzle pieces Sin	nilar fossils found in oceans apart.
Volcanoes erupt frequently in R	ing of Fire Sin	nilar rock layers found oceans apart.
Age of seafloor increases with o	distance from Mid-Atlantic Ridge	Himalayas continue to grow.
Fill in the blanks to complete the sente	ences. Use terms from the word bank	s below.
convection currents lithos	phere rock cycle seafloor sp	oreading sedimentary rock
Harry Hess proposed the idea ofunderwater ridges.	to e	explain the formation of new rock at
Intense heat at Earth's core creates		n the mantle, which leads to
movement in the	·	
Plate tectonics drives the transformation rock during the	·	late boundary they describe.
pla	tes pull apart subduction zo	pnes
Divergent (2 facts)		
	Both (1 fact)	Convergent (3 facts)