

Earth and Life History

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
- b. the seeds
- c. the skin
- 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 explode

_____ 4. Which term best describes the movement of continents?

- a. rapid
- b. gradual
- c. nonexistent
- d. fleeting

_____ 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 another 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?