Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: 1 2 3 4 5 6

**Earth Science - Unit 9 Study Guide**

1) Define the following terms:

Pangaea –

divergent boundary –

convergent boundary –

transform fault boundary –

seafloor spreading -

subduction zone –

hot spot-

2) What is the difference between the hypothesis/theory of “continental drift” and “plate tectonics”?

3) What does the asthenosphere permit?

4) What is a geographical example of a transform fault boundary?

5) Where (boundary) does new ocean crust form?

6) Volcanic island arcs are associated with what type of boundaries?

7) Continental volcanic arcs are associated with what type of plate boundary?

8) The Hawaiian Islands were formed when the Pacific Plate moved over a \_\_\_\_\_\_\_\_\_\_\_\_\_\_?

9) How does the age of seafloor sediments change with increasing distance from the oceanic ridge?