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

WEBQUEST PART 1: PLATE TECTONICS

1. Go to <http://www.enchantedlearning.com/subjects/astronomy/planets/earth/Continents.shtml>.

2. Observe the diagram in motion. What is being demonstrated here?

3. The Earth's rocky outer crust solidified billions of years ago, soon after the Earth formed. But the earth is not a solid shell. Instead, it is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Over long periods of time, what 3 actions cause these plates to change in size?

 1.

 2.

 3.

5. How many major plates are there? \_\_\_\_\_\_ List them.

6. The theory of plate tectonics explains the movement of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and explains the cause of: 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, &

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. At what speed are the plates estimated to be moving per year? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. How is oceanic crust different from continental crust? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Types of Plate Movement

8. Divergent plate movement: Draw a diagram of this type of movement using arrows.

9. Explain seafloor spreading. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Convergent plate movement: Draw a diagram of this type of movement using arrows.

11. What two things can be formed when plates collide? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Lateral Slipping Plate Movement: Draw a diagram of this type of movement using arrows.

13. What is formed due to the friction of lateral slipping plates? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. Read about Wegener and his theory of Pangaea. Then click on the “interactive quiz about plate tectonics”. Take the quiz! Did you make a 100? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part 2 Complete the Venn Diagram Compare and Contrast Continental Drift and Plate Tectonics

