

Name: _____

Pd: _____

Date: _____

Plate Tectonics Review

1. Complete the following information on the Three(3) Main Layers of the Earth

Word Bank: crust inner and outer core mantle lithosphere
asthenosphere oceanic continental

- a. The _____ is the second and thickest layer of the Earth. The upper two layers of this section affect plate tectonics the most.
- b. The _____ crust makes up the continents and has a low density.
- c. The _____ is the outermost and thinnest layer of the Earth. It is broken into two types: oceanic and continental.
- d. The _____ is the second and more plastic layer of the mantle.
- e. The _____ crust makes up the ocean floor and has a high density.
- f. The _____ and _____ are the innermost and hottest layers of the Earth. These areas are composed of both molten and solid nickel and iron.
- g. The _____ is the top, most solid layer of the mantle. It is often included in the crust.

2. The Earth's crust is made up of about _____ different plates that move due to convection of plastic rock in the mantle.

- a. 10
- b. 20
- c. 30

3. This man theorized that the Earth's continents were once together and slowly drifted apart over 250 million years; a process known as continental drift.

- a. Harry Hess
- b. James Hutton
- c. Alfred Wegener

4. Explain Alfred Wegener's theory of continental drift using the following word bank:

Word Bank: Pangaea jigsaw puzzle glaciers supercontinent Laurasia
Gondwanaland fossils continental drift

5. Harry Hess determined the ocean floor moves like what object?
 - a. Escalator
 - b. Conveyer belt
 - c. Jigsaw puzzle

6. According to Harry Hess, the plates of the Earth move apart at _____ and come together at _____.

7. What is Harry Hess's theory on plate tectonics called? _____

8. Oceanic crust _____ under the mantle because it is more dense than the continental crust.

9. The ocean crust is constantly pushing on the continental plate .
 - a. True
 - b. False

10. What is the location where two plates meet called? _____

11. There are two main types of plate boundaries. Name them
 - a. _____
 - b. _____

12. What is the name for an area where two plates come together? _____

13. What is the name for an area where two plates move apart? _____

14. Match the type of convergent plate boundary to the item it creates

a. Continental – Oceanic	_____	creates mountains
b. Oceanic – Oceanic	_____	creates island arcs
c. Continental – Continental	_____	creates volcanoes

15. Explain what a transform boundary is.