

## Chapter 10 & 11: Plate Tectonics, Earthquakes, and Volcanoes Posttest

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

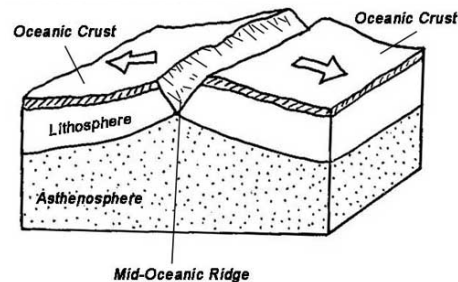
**ATTENTION!** Read any and all directions for each question. If you read this, put a smiley face on the last page of your test! May your answers be ever in your favor! I'll be wishing you the best while I take my test too!

### Multiple Choice

**Directions:** Identify the choice that best completes the statement or answers the question on the line provided.

1. What did Wegener think happens during the continental drift? \_\_\_\_  
A. continents move  
B. continents freeze  
C. the mantle warms  
D. The continents enjoyed pontoons.
2. What is one piece of evidence that caused Wegener to think that continents moved? \_\_\_\_  
A. He found an old map of the world that showed movement.  
B. He found similar fossils on different continents that are separated by oceans.  
C. He proved his hypothesis by going back in time like Marty.  
D. He observed the continents moving with his own eye using an elapsed time camera.
3. In which areas does subduction of the ocean floor take place? \_\_\_\_  
A. rift valleys  
B. the lower mantle  
C. mid-ocean ridges  
D. deep-ocean trenches
4. How many large plates form the outer shell of the earth? \_\_\_\_  
A. 5  
B. 7  
C. 2  
D. none
5. According to plate-tectonic theory where is new oceanic crust being formed? \_\_\_\_  
A. rift valleys  
B. the lower mantle  
C. mid-ocean ridges  
D. deep-ocean trenches
6. At which boundary do two plates pull apart? \_\_\_\_  
A. convergent  
B. transformers  
C. divergent  
D. Autobots v.s. Decepticons

7. What statement best describes the process in the diagram to the right? \_\_\_\_  
A. converging plates form mountains  
B. converging plates form volcanoes  
C. diverging plates form mountains  
D. diverging plates form a rift valley



8. Which force squeezes Earth's crust to make the crust shorter and thicker? \_\_\_\_  
A. tension  
B. normal  
C. the power of the Sith!  
D. compression
9. In which type of location is an earthquake rick the greatest? \_\_\_\_  
A. at plate centers  
B. on big plates  
C. at plate boundaries  
D. Under the sea! Everything's better!

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10. What do we call a volcano that has not erupted in a long time, but that scientists believe may erupt sometime in the future? \_\_\_\_
- A. dormant  
B. active  
C. extinct  
D. dead
11. Which of the following can cause damage days or months after a large earthquake? \_\_\_\_
- A. The arrival of surface waves  
B. He-Who-Shall-Not-Be-Named  
C. A tsunami  
D. An aftershock
12. Earthquakes... \_\_\_\_
- A. Are caused by rupture of land  
B. Are generated in the focus  
C. Release energy in the form of seismic waves  
D. Occur whenever tectonic plates move  
E. All of the above

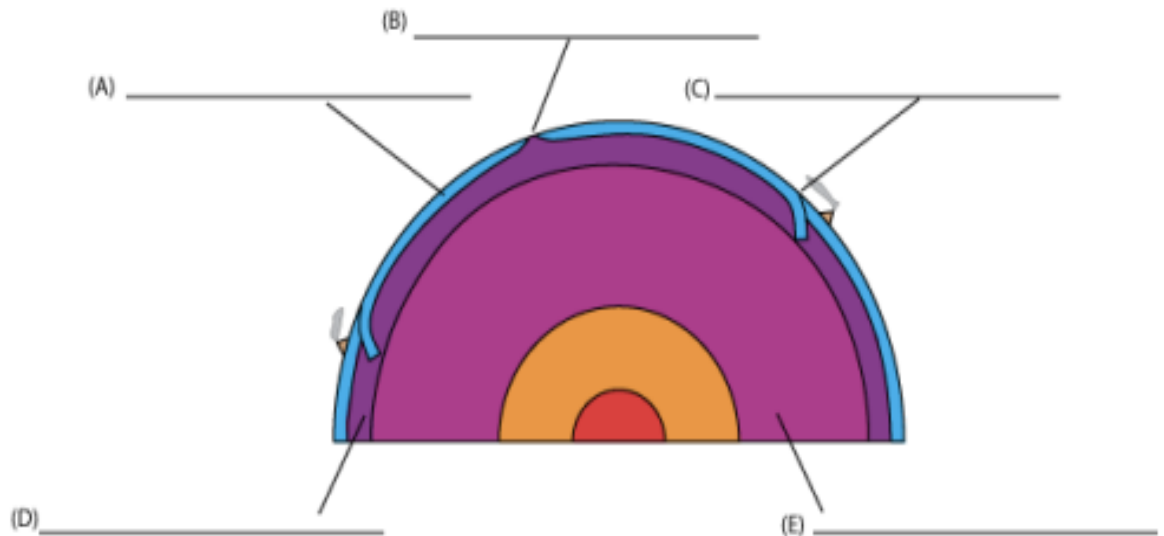
### Fill-in-the-Blank

**Directions:** Complete each statement or diagram.

13. Please fill in the missing labels for this diagram of Earth and its layers.

**Word bank:**

lithosphere, mid-ocean ridge, trench, asthenosphere, mesosphere



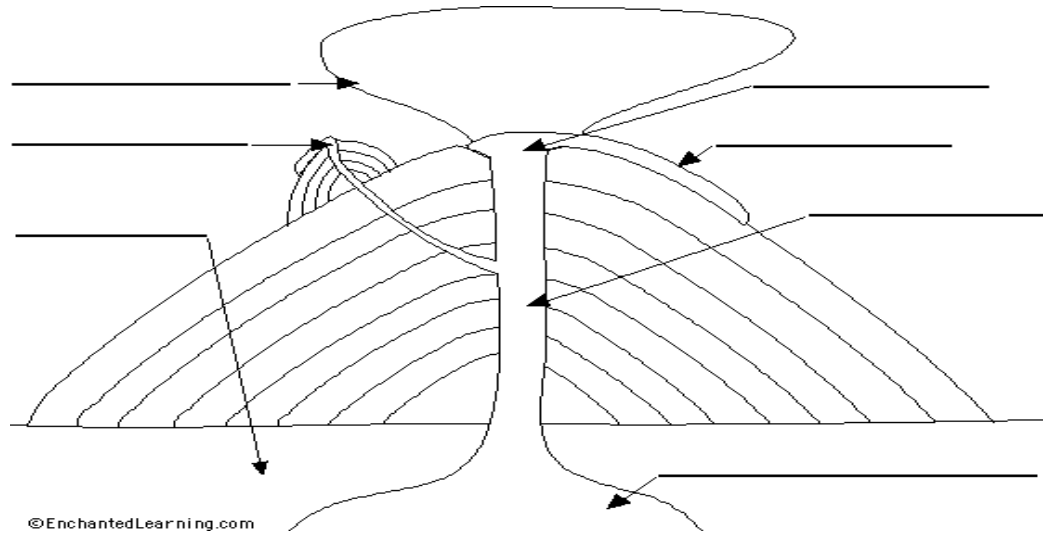
14. The continents were thought to have once been joined together in a supercontinent that was called \_\_\_\_\_.
15. A mid-ocean ridge is a \_\_\_\_\_.
16. Rocks on either side of a \_\_\_\_\_ fault slip past each other with little up and down motion.

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17. Label the parts of the volcano in this diagram.

**Word bank:**

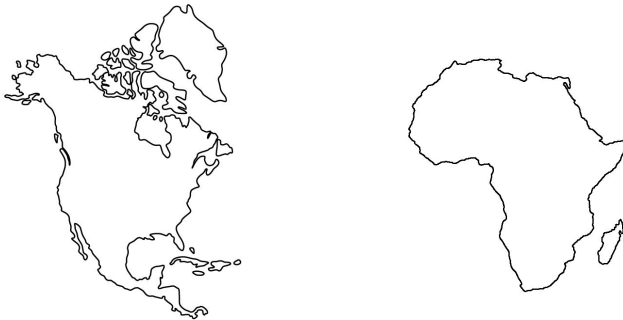
ash cloud  
pipe  
crust  
lava  
magma chamber  
side vent  
vent



### Matching

**Directions:** Match parts of the diagram or place statements in the correct order for the process.

18. The image shows North America and Africa. Circle the parts of the coastlines of the two continents that were joined in Pangea.



19. Place the following steps of sea-flooring spreading in their correct sequence.

- A. The molten material cools and hardens, forming a strip of rock along the ocean floor.
- B. The strip of rock moves away from the ridge.
- C. Molten material from inside Earth rises to the ocean floor at a mid-ocean ridge.

First: \_\_\_\_ Second: \_\_\_\_ Third: \_\_\_\_

### Short Answer

**Directions:** Use complete sentences to answer the follow questions, **UNLESS** you are told to **LIST**. Then you may simply list the answers.

20. **List** at least **TWO** of the major lithospheric plates of our planet.

21. Describe Wegener's hypothesis about the continents.

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22. How do moving plates change the Earth's crust?
23. **List TWO** types of landforms that could result from convergent plate movement.
24. **Apply** what you know about volcanoes to answer the following question: How might a volcano be hazardous for plants and animals that live nearby? I am looking for **THREE** specific ways.

### Mini-Essay

**Directions:** *Using what you have learned and complete sentences answer the following questions in detail to the best of your ability.*

25. There is a high risk of earthquakes along the San Andreas fault in California. What is happening in earth's crust along the fault to cause this high earthquake risk? Use the theory of plate tectonics in your answer.
26. Compare & contrast volcanoes and earthquakes.