

Name: _____

Date: _____

Hour: _____

Unit D Study Guide

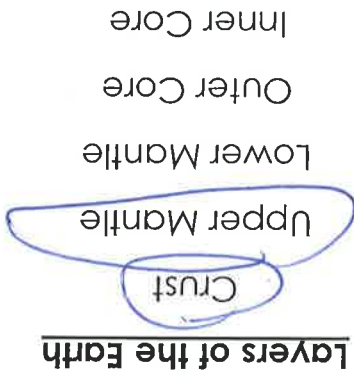
1. How far is it from the Earth's surface to the center of the Earth? (Act 38) 6400 km

2. What is the theory of plate tectonics? (vocabulary & Act 42)
the surface of earth is made up of large plates that move

3. What is continental drift? (vocabulary & 41) the theory that the continents were once joined together forming a super-continent called Pangaea

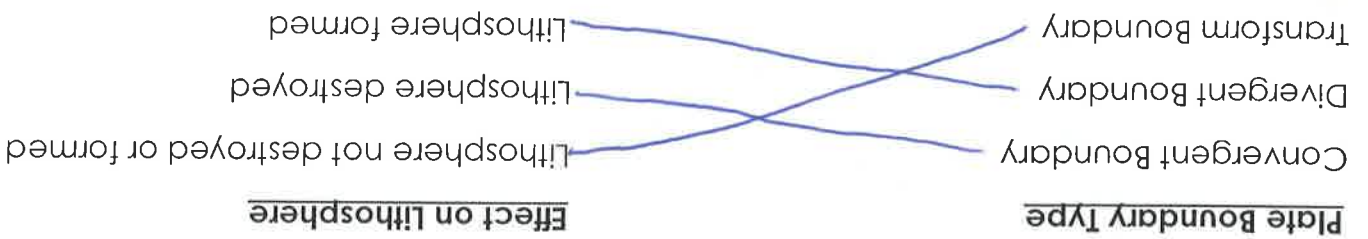
4. True or False: Old crust is destroyed, and new crust is formed over time. (Act 42) True

5. Circle the layers of the earth included in the lithosphere. (vocabulary & Act 38)



6. What are two pieces of evidence that support the idea that the continents used to be together? (Act 40, 41, & 42) fossils and mountains that line up if continents were put back together

7. Draw a line from the plate boundary type to its effect on the lithosphere. (Act 45)



8. The Himalayan mountains are located along the Northern border of India. How were they formed? two continental plates colliding (same density)

9. Scientists suggest that Earth is 4.5 billion years old. (Act 39)

10. What is the definition of paleontologist? (vocabulary)
scientist who studies rocks and fossils to understand when events occurred in the history of life

11. What is subduction? (vocabulary & 45)
when one plate slides below another plate

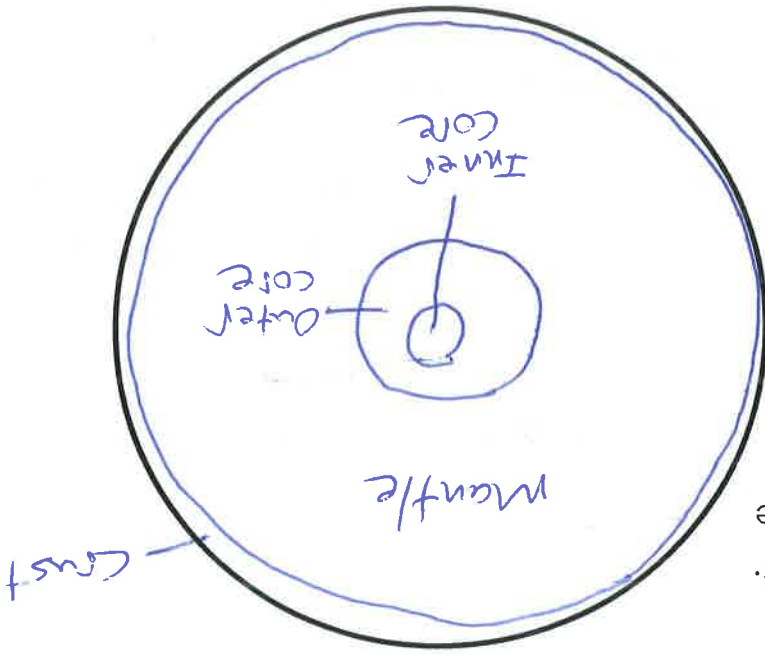
12. At what type of plate boundary does subduction occur?

a. transform

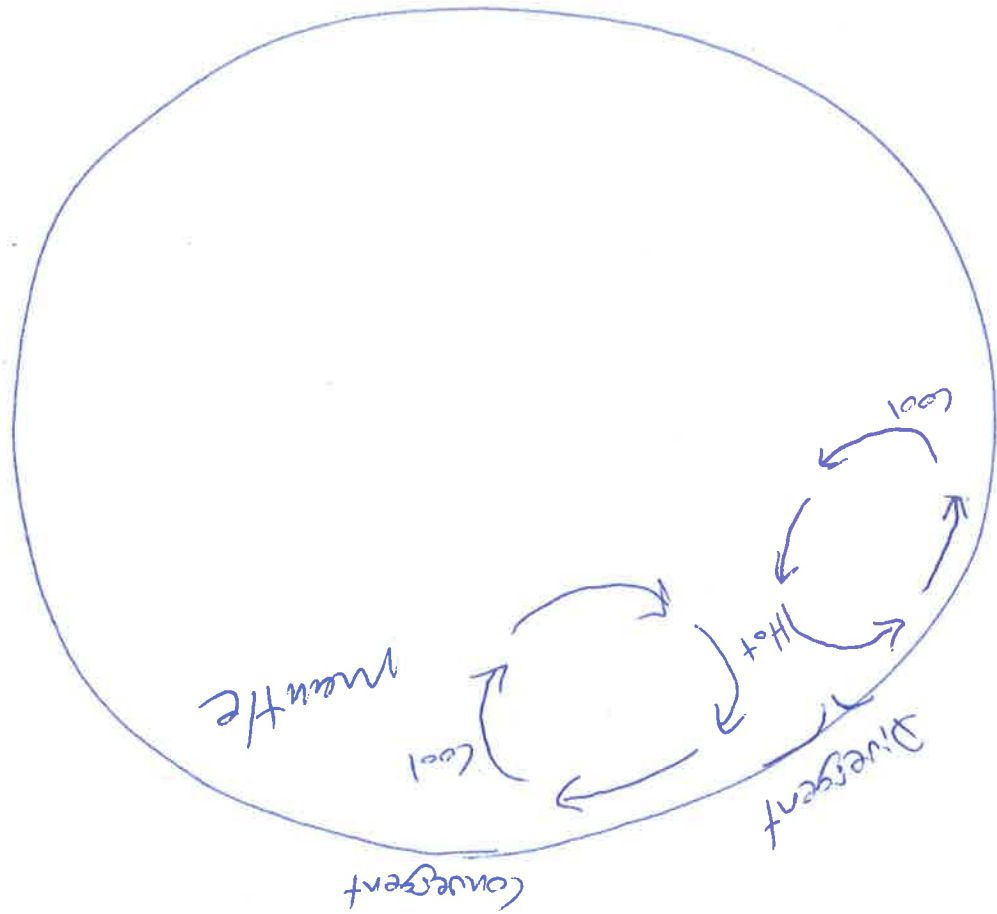
b. convergent

c. divergent

13. Draw and label the Earth's layers. Include the name and relative size of each layer.



14. Identify the science term for each type of plate boundary and then place a check mark to identify what is likely to happen at each type of plate boundary.



15. Explain in words or using a picture how convection currents work.
 uneven heating in the mantle creates movement of the liquid mantle, hot material rising and cool material lowering in circular patterns

Types of Plate Motion	Scientific Term for Boundary Type	Earthquake	Volcanoes	Mountain Formation
Spreading	Divergent	✓	✓	
Sliding	Transform	✓		
Colliding	Convergent	✓	✓	✓

