

Name: _____ Period: _____

1. Explain the Theory of Plate Tectonics:

theory that continents were once joined + have drifted apart and are continuing to move

a. What evidence supported the theory?

fossil evidence + mountain (rock type) similarities were found on continents separated by oceans

b. What discoveries further validated the theory?

sea-floor spreading, magnetic shift + age of rocks on sea-floor

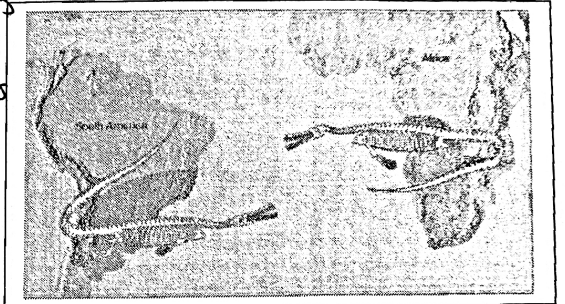
2. How is fossil and rock formation evidence used to provide evidence of Pangaea?

fossils + rocks were found on continents that are separated by oceans. It is impossible for fossils to be in 2 places unless

3. What was Pangaea?

they were once attached

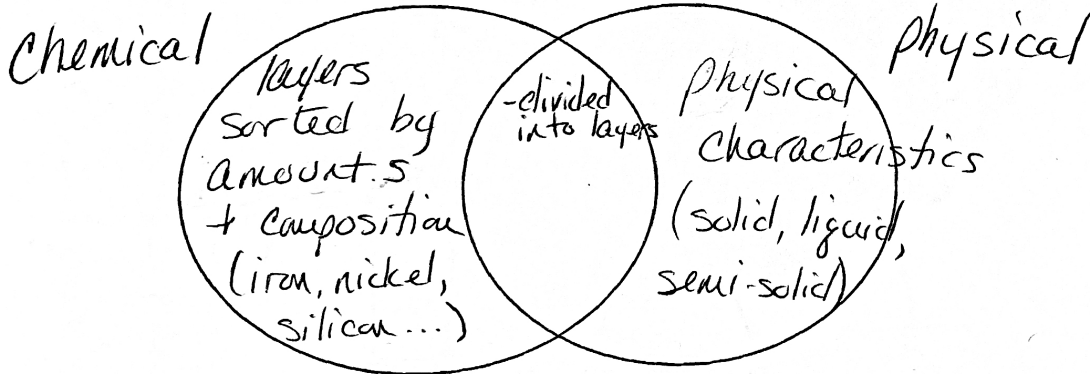
Pangaea was the original super continent



4. Why does Pangaea no longer exist? (What is the force? Describe the movement.)

Pangaea no longer exists due to the movement caused by convection. Convection happens when the earth's core heats magma. As the magma heats it rises + sinks as it cools. This movement drags + moves tectonic plates

5. Use the diagram to compare and contrast physical and chemical layers of the earth.



6. What are similarities and differences between the crust and the lithosphere?

same - Crust + lithosphere are both hard and the outside layer of earth

difference - lithosphere INCLUDES the crust + upper part of mantle.

7. What is the difference between oceanic crust and continental crust?

oceanic crust - in the ocean, most dense, thinner than continental
 continental crust - has continents, less dense, thicker than oceanic