

Directed Reading A *continued*

POSSIBLE CAUSES OF TECTONIC PLATE MOTION

- _____ 11. When rock is heated, it becomes less dense and tends to
- a. rise.
 - b. sink.
 - c. move sideways.
 - d. erupt.
- _____ 12. When rock cools, it becomes more dense and tends to
- a. rise to the surface.
 - b. sink below the surface.
 - c. move sideways.
 - d. push against the surface.
13. Density changes in the asthenosphere are caused by the flow of
- _____ energy from deep within the Earth.

Match the correct definition with the correct term. Write the letter in the space provided.

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| _____ 14. plate motion due to higher densities | a. ridge push |
| _____ 15. plate motion due to gravity | b. convection |
| _____ 16. plate motion due to the heating and cooling of rocks | c. slab pull |

TRACKING TECTONIC PLATE MOTION

- _____ 17. How fast do tectonic plates move?
- a. kilometers per year
 - b. meters per year
 - c. meters per month
 - d. centimeters per year
- _____ 18. What do scientists use to measure the rate of tectonic plate movement?
- a. clinometers
 - b. the global positioning system
 - c. densitometers
 - d. seismographs