

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.

_____ 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