

Skills Worksheet

Directed Reading A

Section: The Theory of Plate Tectonics

1. The theory that Earth is divided into plates that move around is

_____.

TECTONIC PLATE BOUNDARIES

- _____ 2. The place where tectonic plates touch is known as the
a. continental plate. **c.** magma zone.
b. tectonic boundary. **d.** tectonic ridge.
- _____ 3. Which of the following is NOT a type of tectonic plate boundary?
a. convergent boundary **c.** divergent boundary
b. fault-block boundary **d.** transform boundary
- _____ 4. The three ways that tectonic plates can move relative to each other are
a. collide, separate, and slide. **c.** drift, separate, and slide.
b. collide, fuse, and slide. **d.** collide, fuse, and drift.
5. When two plates with continental crust collide, what happens to the continental crust?

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

- _____ 6. boundary formed when tectonic plates collide **a.** transform boundary
b. convergent boundary
- _____ 7. boundary formed when tectonic plates separate **c.** divergent boundary
- _____ 8. boundary formed when tectonic plates slide past horizontally
9. Which type of boundary produces strike-slip faults?

10. Which type of boundary produces earthquakes?

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