

Directed Reading A

Section: Inside the Earth

1. The Earth is composed of several _____.

THE COMPOSITION OF THE EARTH

- _____ 2. A substance composed of two or more elements is a(n)

a. mix.

c. compound.

b. amalgam.

d. complex.

3. Why do less dense compounds make up Earth's crust while the densest compounds make up the core?

4. List the three layers of the Earth, based on their chemical composition.

5. What three elements make up most of the Earth's crust?

6. Oceanic crust is denser than the continental crust because it contains more of which three elements?

7. The mantle is composed of more of the element _____ than the crust is.

8. Why do scientists look to the ocean floor to research the mantle?

Directed Reading A *continued*

9. The mantle has less aluminum and less _____ than the crust does.

10. What element makes up most of the Earth's core?

11. How much of the Earth's mass is made up by the core?

THE PHYSICAL STRUCTURE OF THE EARTH

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

_____ 12. the outermost, rigid layer of the Earth

_____ 13. a layer of slowly flowing rock in the mantle

_____ 14. the liquid layer of the core

_____ 15. the solid layer of the core

_____ 16. the strong, lower part of the mantle

a. asthenosphere

b. lithosphere

c. mesosphere

d. outer core

e. inner core

TECTONIC PLATES

_____ 17. Large pieces of the lithosphere that move around on the asthenosphere are called

a. mantle pieces.

b. crust pieces.

c. tectonic plates.

d. puzzle pieces.

18. Why are tectonic plates like the pieces of a jigsaw puzzle?

19. What are the two kinds of crust that a tectonic plate may contain?
