

Directed Reading A: Inside the Earth

Section: Inside the Earth

1. The Earth is composed of several layers.

THE COMPOSITION OF THE EARTH

- C 2. A substance composed of two or more elements is a(n)
- | | |
|-------------|--------------|
| a. mix. | c. compound. |
| b. amalgam. | d. complex. |

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

Heavier elements are pulled to the center of the Earth by gravity. The elements with less mass are further from the center.

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

Crust, mantle, core (outer and inner)

5. **Complete Sentence** - What three elements make up most of the Earth's crust?

The three main elements that make up Earth's crust are oxygen, silicon, and aluminum.

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

The oceanic crust contains more iron, calcium, and magnesium which cause it to be denser than continental crust.

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

8. **Complete Sentence** - Why do scientists look to the ocean floor to research the mantle?

Scientists look at the ocean floor because magma from the mantle flows out of active volcanoes on the ocean floor.

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