

## Chapter 22 Earth's Interior

## Section 22.1 Earth's Structure

(pages 660–663)

This section explains what geologists study. It describes the main layers of Earth.

## Reading Strategy (page 660)

**Building Vocabulary** Copy the table on a separate sheet of paper and add more rows as needed. As you read the section, define each vocabulary term in your own words. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Earth's Structure	
Vocabulary Term	Definition
Geologist	
Uniformitarianism	
Crust	

## The Science of Geology (pages 660–661)

- The study of planet Earth, including its composition and structure is called **Geology**.
- Is the following sentence true or false? People who study Earth and the processes that have shaped Earth over time are called geologists.  
**True.**
- What is uniformitarianism? **The idea that geologic processes that operate today also operated in the past.**

## A Cross Section of Earth (pages 661–663)

- Circle the letters of the major layers of Earth's interior.
  - ☒ a. crust
  - ☐ b. atmosphere
  - ☒ c. mantle
  - ☒ d. core
- Scientists divide Earth's interior into the crust, mantle, and core based on the **Materials made up by each layer**.
- Much of the Earth's crust is made up of **silicates**.

## Chapter 22 Earth's Interior

Match each type of crust to its characteristics. Each type of crust will have more than one characteristic.

Crust	Characteristic
e,a,d	7. oceanic crust
f,c,b	8. continental crust
	a. Averages about 7 kilometers thick
	b. Consists mainly of less-dense rocks
	c. Averages 40 kilometers in thickness
	d. Composed mostly of dense rocks
	e. Makes up the ocean floor
	f. Makes up the continents

9. The layer of Earth called the mantle is found directly below the crust.
10. Circle the letters of each sentence that is true about Earth's mantle.
- ☒ It is the thickest layer of Earth.
  - ☒ It is divided into layers based on the physical properties of rock.
  - ☐ c. It is less dense than the crust.
  - ☒ It is made mainly of silicates.
11. The lithosphere includes the uppermost part of Earth's mantle and Earth's crust.
12. Is the following sentence true or false? Rock flows slowly in the asthenosphere. true
13. The stronger, lower part of the mantle is called the mesosphere.
14. The sphere of metal inside Earth is called the core.
15. Is the following sentence true or false? The outer core of Earth is liquid. true
16. Label the main layers of Earth's interior in the diagram below.









