

Chapter 1.1: Earth's Interior

Chapter Outline & Vocabulary (pgs 6-13)

Purpose: To practice effective textbook reading skills.

Assignment: Before reading Chapter 1.1 Earth's Interior, skim the chapter section looking for subject headings, vocabulary words, pictures, graphs, sidebars, and end-of-chapter questions. Next, outline the chapter in your notebook, an example is provided below. Then write a definition for each vocabulary word using your own words. Finally, carefully read the chapter!

1. Key Concepts (pg 6)
 - a. How have geologists learned about Earth's interior structure?
 - b. What are the characteristics of Earth's crust, mantle, and core?
2. Exploring Inside Earth (pg 7-8)
 - a. Evidence from Rock Samples (pg 8)
 - b. Evidence from Seismic Waves (pg 8)
 - i. Seismic waves: Vibrations that travel through Earth carrying the energy released during an earthquake.
3. A Journey to the Center of Earth (pg 9)
 - a. Temperature
 - b. Pressure
 - i. Pressure: The force exerted on a surface divided by the area over which the force is exerted.
4. The Crust (pg 10)
 - i. Crust: The layer of rock that forms Earth's outer surface.
 - ii. Basalt: A dark, dense, igneous rock with a fine texture, found in oceanic crust.
 - iii. Granite: A usually light-colored igneous rock that is found in continental crust.
5. The Mantle (pg 11)
 - i. Mantle: The layer of hot, solid material between Earth's crust and core.
 - b. The Lithosphere
 - i. Lithosphere: A rigid layer made up of the uppermost part of the mantle and the crust.
 - c. The Asthenosphere
 - i. Asthenosphere: The soft layer of the mantle on which the lithosphere floats.
 - d. The Lower Mantle
6. The Core (pgs 12-13)
 - a. Outer Core and Inner Core (pg 12)
 - i. Outer core: A layer of molten iron and nickel that surrounds the inner core of Earth.
 - ii. Inner core: A dense sphere of solid iron and nickel at the center of Earth.
 - b. The Core and Earth's Magnetic Field (pg 13)