

Chapter 8 Earthquakes and Earth's Interior

Section 8.4 Earth's Layered Structure

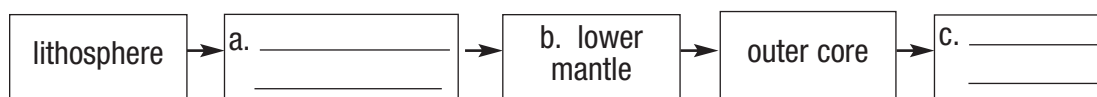
(pages 233–237)

This section describes Earth's layers and their composition.

Reading Strategy (page 233)

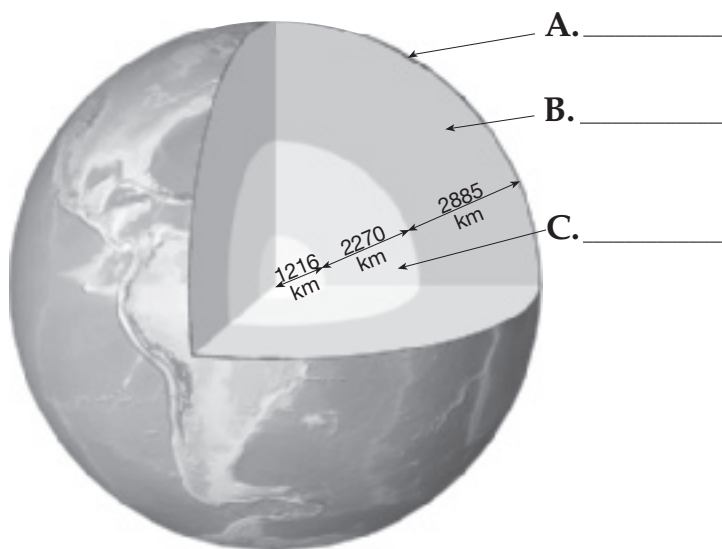
Sequencing After you read, complete the sequence of layers in Earth's interior. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Earth's Internal Structure



Layers Defined by Composition (pages 233–234)

1. 🎧 Label the three major layers of Earth's interior. Choose from the following terms.



Chapter 8 Earthquakes and Earth's Interior

Layers Defined by Physical Properties (pages 234–235)

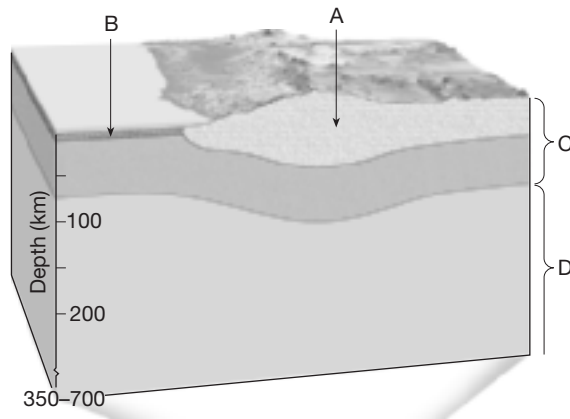
2. Use the figure of Earth's structure to write the letter(s) that represents each of the following layers.

asthenosphere _____

continental crust _____

oceanic crust _____

lithosphere _____



Discovering Earth's Layers (page 236)

3. The boundary called the _____ separates the crust from the mantle. Circle the correct answer.

Lithosphere Moho Asthenosphere

4. Is the following sentence true or false? Geologists concluded that the outer core was liquid because P waves could not travel through it.

Discovering Earth's Composition (page 237)

Match each composition with its Earth layer.

- | Composition | Earth Layer |
|---|----------------------|
| _____ 5. basaltic rock | a. continental crust |
| _____ 6. granitic rock | b. oceanic crust |
| _____ 7. similar to stony meteorites | c. core |
| _____ 8. similar to metallic meteorites | d. mantle |
9. _____ that collide with Earth provide evidence of Earth's inner composition.
10. Is the following sentence true or false? Until the late 1960s, scientists had only seismic evidence they could use to determine the composition of oceanic crust. _____