

Chapter 1 Introduction to Earth Science

Section 1.2 A View of Earth

(pages 7–10)

This section explains the physical structure of Earth.

Reading Strategy (page 7)

Predicting Before you read, predict the meaning of the vocabulary terms. After you read, revise your definition if your prediction was incorrect. 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.

Vocabulary Term	Before You Read	After You Read
hydrosphere	a.	b.
atmosphere	c.	d.
geosphere	e.	f.
biosphere	g.	h.
core	i.	j.
mantle	k.	l.
crust	m.	n.

Earth's Major Spheres (pages 7–9)

1. 🌐 Earth can be thought of as consisting of four major spheres: the hydrosphere, atmosphere, geosphere, and _____.

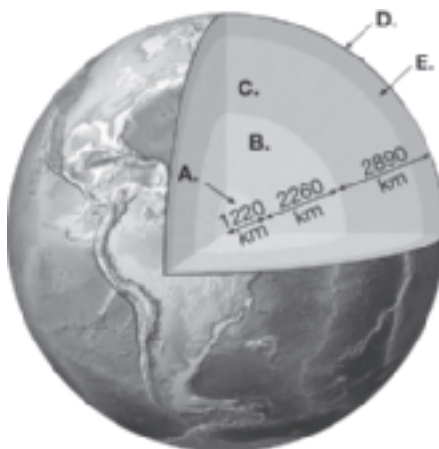
Match each term to its description.

Term	Description
_____ 2. hydrosphere	a. all life-forms on Earth
_____ 3. atmosphere	b. composed of the core, mantle, and crust
_____ 4. geosphere	c. the water portion of Earth
_____ 5. biosphere	d. the gaseous envelope around Earth

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6. What does each letter in the diagram below represent? Use these vocabulary words.

- crust
- inner core
- lower mantle
- outer core
- upper mantle



- A. _____
- B. _____
- C. _____
- D. _____
- E. _____

Plate Tectonics (pages 9–10)

7. Is the following sentence true or false? Forces such as weathering and erosion that work to wear away high points and flatten out Earth's surface are called constructive forces. _____

8. Circle the letter of each type of constructive force.

- a. gravity b. mountain building c. volcanism

9. Is the following sentence true or false? Constructive forces depend on Earth's internal heat for their source of energy. _____

10. Circle the letter of the theory that provided geologists with a model to explain how earthquakes and volcanic eruptions occur and how continents move.

- a. continental drift b. evolution c. plate tectonics

11. Use one of these terms to fill in the blank.

heat rock water

Plates move slowly and continuously due to the unequal distribution of _____ within Earth.