

Chapter 1 Introduction to Earth Science

Section 1.2 A View of Earth

This section explains the physical structure of Earth.

Reading Strategy

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

1. 🌐 Earth can be thought of as consisting of four major spheres: the _____, _____, _____, 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. dense, heavy inner sphere of Earth
_____ 5. biosphere	d. thin outside layer of Earth's surface
_____ 6. core	e. the water portion of Earth
_____ 7. mantle	f. the gaseous envelope around Earth
_____ 8. crust	g. located between the crust and core of Earth

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9. What does each letter in the diagram below represent?

- A. _____
- B. _____
- C. _____
- D. _____
- E. _____
- F. _____
- G. _____
- H. _____
- I. _____
- J. _____

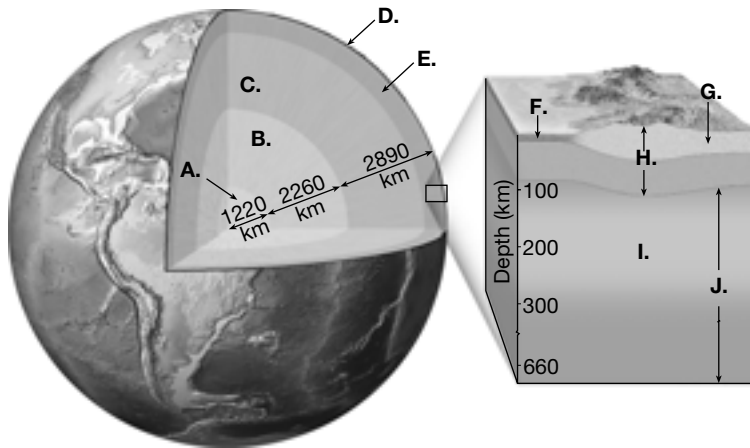


Plate Tectonics

10. 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. _____

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

- a. gravity
- b. mountain building
- c. ocean currents
- d. volcanism

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

13. 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
- d. Pangaea

14. Explain the principles of the plate tectonics theory. _____
