

Name	
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Chapter 3 Section 1: The Geosphere

Read the passage below and answer the questions that follow.

If we consider the physical properties of each layer, instead of chemistry, the Earth can be divided into five layers. Earth's outer layer is the lithosphere. It is a cool, rigid layer, 15 km to 300 km thick, and includes the crust and uppermost part of the mantle. It is divided into huge pieces called tectonic plates. The asthenosphere is the layer beneath the lithosphere. The asthenosphere is a plastic, solid layer of the mantle made of rock that flows very slowly and allows tectonic plates to move on top of it. Beneath the asthenosphere is the mesosphere, the lower part of the mantle. The Earth's outer core is a dense liquid layer. At the center of the Earth is the dense, solid inner core, which is made up mostly of the metals iron and nickel. The temperature of the inner core is estimated to be between 4,000°C to 5,000°C. It is solid because it is under enormous pressure. Earth's outer and inner core together make up about one-third of Earth's mass.

IDENTIFYING MAIN IDEAS

b. Earth's inner core

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about main ideas.

In the space provided, write the letter of the term or phrase that best completes each statement

or best answers each question.	
1. Earth can be divided into how m	nany physical layers?
a. five c. eight	
b. three d. six	
2. The approximate temperature of	the inner core is
a. between 3,000°C and 4,000°C.	c. between 4,000°C and 5,000°C.
b. between 4,000°F and 5,000°F.	d. unknown.
3. The inner core is solid because	
a. it absorbs heat from the sun.	c. it is influenced by global warming.
b. it is under tremendous pressure.	d. the movement of tectonic plates causes friction.
4. One-third of Earth's mass is ma	de up of what?
a. Earth's outer core c. tectonic	1

d. both (a) and (b)

VOCABULARY DEVELOPMI In the space provided, write the le	ENT etter of the description that best matches the term or phrase.
5. lithosphere 6. mesosphere 7. tectonic plates 8. inner core 9. asthenosphere 10. outer core	 a. dense layer made of iron and nickel b. rigid layer that includes crust and upper mantle c. plastic, solid layer of slow-flowing rock d. lower part of mantle e. huge pieces of the lithosphere f. dense liquid layer
the order in which they occur.	sequence information, or to logically place items or events in hysical layers in sequence, from the outermost layer to the
14 15	
RECOGNIZING SIMILARITI One reading skill is the ability to ideas, or things. This is sometime	TES AND DIFFERENCES recognize similarities and differences between two phrases, es known as comparing and contrasting. write the answer in the space provided.
How are they different?	

RECOGNIZING CAUSE AND EFFECT

One reading skill is the ability to recognize cause and effect.

Read the following question and write the answer in the space provided.

17. Why do the tectonic plates move?