Name _____ Class _____ Date _____

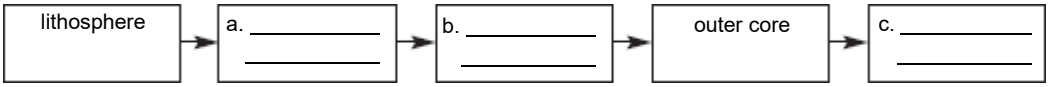
Chapter 8.4 Earthquakes and Earth's Interior

This section describes Earth's layers and their composition.

Reading Strategy

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

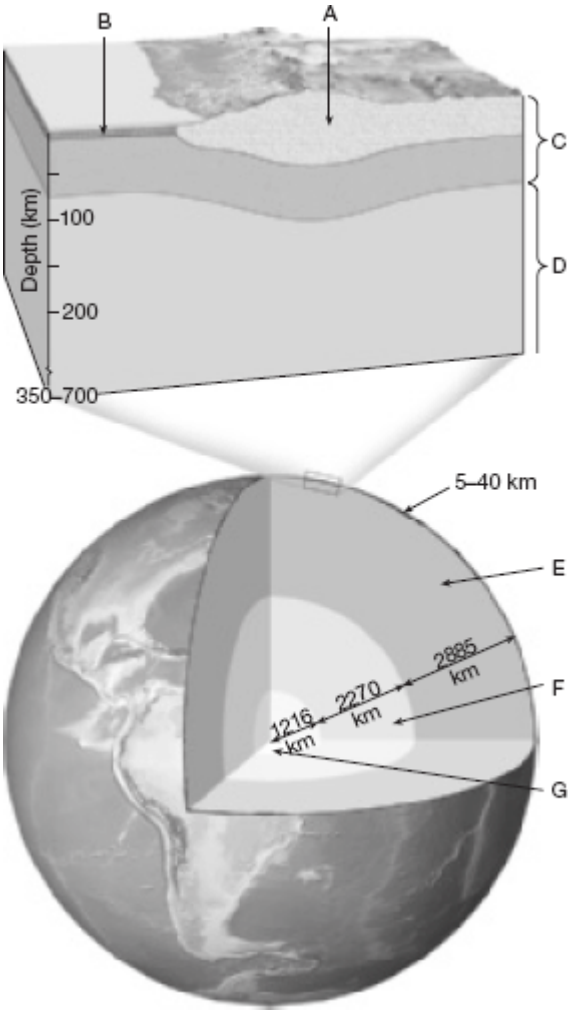
1. Use the figure of Earth's structure to write the letter(s) that represents each of the following layers.

mantle _____

continental crust _____

oceanic crust _____

core _____



Name _____ Class _____ Date _____

Layers Defined by Physical Properties

2. Use the figure of Earth's structure on the previous page to write the letter that represents each of the following layers.

inner core _____

asthenosphere _____

outer core _____

lithosphere _____

Match each description with its Earth layer.

	Description	Earth Layer
_____	**3.** soft, weak rock near its melting point	a. asthenosphere
_____	**4.** liquid iron-nickel alloy that generates Earth's magnetic field	b. inner core
_____	**5.** cool, rigid crust and uppermost mantle	c. outer core
_____	**6.** solid iron-nickel alloy	d. lithosphere

Discovering Earth's Layers

7. The boundary called the _____ separates the crust from the mantle.

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

9. Why do P waves bend when they travel into the outer core from the mantle? _____

_____

_____

Discovering Earth's Composition

Match each composition with its Earth layer.

	Composition	Earth Layer
_____	**10.** basaltic rock	a. continental crust
_____	**11.** granitic rock	b. oceanic crust
_____	**12.** similar to stony meteorites	c. core
_____	**13.** similar to metallic meteorites	d. mantle

14. _____ that collide with Earth provide evidence of Earth's inner composition.

15. 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. _____