Name Class Date

### Chapter 16

**Vocabulary** 

plasma congenital larynx hemoglobin anemia bronchitis arteries leukemia pneumonia capillaries Hodgkin's disease pleurisy veins respiration asthma platelets diaphragm sinusitis lymph pharynx tuberculosis lymphocytes trachea emphysema

blood pressure bronchi

**I. Directions:** Complete the paragraph by writing a term from the list above in each blank.

- **II. Directions:** Match the term in the right column with the correct definition in the left column.
- **6.** A condition in which the ability of the blood to carry oxygen is reduced
- 7. An inflammation of the tissues that line the sinuses
- \_\_\_\_ 8. A disease that progressively destroys the walls of the alveoli
- **9.** A type of cancer that affects the lymph tissue
- \_\_\_\_\_10. A form of cancer that affects the white blood cells

- a. leukemia
- b. Hodgkin's disease
- c. emphysema
- **d.** anemia
- e. sinusitis

### **Applying Health Skills**

FOR USE WITH CHAPTER 16, LESSON 1

## What's Going on Here?

**Directions:** Our bodies carry out hundreds of different functions every day. We rarely stop to think about many of these. For each situation described below, write several sentences explaining "what's going on here" with the heart, blood vessels, or cells.

1.	You fall off your skateboard and cut your arm. Later the cut stops bleeding.
2.	You are sitting at the football game with your friends. As the sun goes
	down, the temperature falls and you begin to get cold.
3.	You have come down with a cold—just like everyone else in your family.  After a few days, the cold symptoms go away and you feel better.
4.	For warm-ups, you are running extra laps before tennis practice.

#### **Applying Health Skills**

FOR USE WITH CHAPTER 16, LESSON 2

# The Case of the Missing Notes

**Directions:** A medical student has misplaced some of her class notes. The missing notes are case studies of patients with cardiovascular or lymphatic problems. Help the student replace her lost notes by filling in the following case studies.

Case Study 1
Patient: 78-year-old male
Symptoms: unable to fight off infections, frequently ill
Possible Diagnosis:
System Involved:
Case Study 2
Patient: 15-year-old female
Symptoms: frequently tired, blood tests show low red blood cell count
Possible Diagnosis:
System Involved:
Possible Treatment:
Case Study 3
Patient: 39-year-old male
Symptoms: none, blood pressure reading 160/100, 30 pounds overweight, smoker
Possible Diagnosis:
System Involved:
Possible Treatment:
Case Study 4
Patient: 39-year-old female
Symptoms: severe pain in legs after long periods of standing
Possible Diagnosis:
System Involved:
Possible Treatment:

### **Applying Health Skills**

FOR USE WITH CHAPTER 16, LESSON 3

## What's My Line?

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ar	irections: See if you can guess the structures of the respiratory system that e being described below. For each structure, there is a series of clues. Use the ues to guess the structure, and write your answer in the space provided.
1.	Clues:
	The site of gas exchange in the lungs
	Microscopic structures at the end of each bronchiole
	Thin-walled air sacs covered with capillaries
	Structure:
2.	Clues:
	Connects the throat and the trachea
	Contains the vocal cords
	Allows you to speak and make sounds
	Structure:
3.	Clues:
	Dome-shaped muscle
	The base of the chest cavity
	Causes chest cavity to expand and contract
	Structure:
4.	Clues:
	Part of the upper respiratory system
	Lined with cilia
	Lined with cells that produce mucus
	Structure:
5.	Clues:
	Air moves into the lungs through this
	Branches out into bronchi
	Also known as the windpipe
	Structure

### **Applying Health Skills**

FOR USE WITH CHAPTER 16, LESSON 4

## Write a Letter

**Directions:** Read each of the following situations. In each situation, a person is putting his or her health at risk. Use the information in the chapter and your knowledge of health to write a letter expressing your concern and suggesting ways the person could take better care of his or her health.

1.	Your best friend Sasha has taken up smoking.
	Dear Sasha,
	Your friend,
2.	Your cousin Josh has stopped exercising. Last time you played football in the yard, you noticed Josh fighting to catch his breath.
	Dear Josh,
	Your cousin,
3.	Your little sister Jenna insists on playing with her friend's cat, even though she always has an asthma attack afterward.
	Dear Sis,
	Your sister.

## Chapter 16

**Study Guide** 

**STUDY TIPS:** 

- Read You'll Learn To for each lesson.
- Look up the meaning of any unfamiliar vocabulary terms.
- Read the questions below before you read the chapter.

**Directions:** As you read the chapter, answer the following questions. Later, you can use this guide to review the information in the chapter.

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	what is the main function of the cardiovascular system?
2.	List three structures found in the heart.
3.	What is blood?
4.	What is blood composed of?
5.	What are two similarities of arteries and veins?
6.	What are two differences between arteries and veins?
7.	Describe two functions of the lymphatic system.
8.	What is lymph?
9.	What is the function of lymphocytes and name the two types.

### Study Guide, Chapter 16 (Continued)

	son 2 What three healthful behaviors can you practice to help avoid problems with your cardiovascular and lymphatic systems?
11.	What does blood pressure measure?
12.	Name two possible problems of the cardiovascular system.
13.	Define <i>anemia</i> and describe one way to avoid this condition.
14.	Name three problems that can affect the lymphatic system.
	son 3  Define each of the following:  a. Internal respiration:
	b. External respiration:
16.	Explain how the diaphragm allows breathing to occur.
17.	How does gas exchange take place in the lungs?

**18.** What is the role of cilia?

**19.** What is another name for

a. pharynx

b. trachea

c. larynx

#### Lesson 4

**20.** What are two strategies you can use to maintain the health of your respiratory system?

**21.** Name two irritants that can cause bronchitis.

22. Describe pneumonia and name two causes of this disease.

23. Describe what happens during an asthma attack.

**24.** Describe the symptoms and treatment of tuberculosis.