

Answer Key

CHAPTER 15: TRANSPORT IN THE BODY

15-1 What is the circulatory system?

Lesson Review

1. movement of blood throughout the body
2. A closed circulatory system forms a long network of tubes that are connected to make a continuous path.
3. Students should place check marks beside letters a, c, e, f, g, and h.
4. capillaries
5. chemical messenger in the body

Skill Challenge

1. transport
2. protection
3. transport
4. regulation
5. protection
6. regulation

15-2 What are the parts of the heart?

Lesson Review

PART A

1. b
2. a
3. d
4. c
5. f
6. e

PART B

1. the atria
2. when they are filled with blood
3. valves
4. when they are filled with blood
5. valves

Skill Challenge

1. right atrium
2. left atrium
3. valve
4. right ventricle
5. left ventricle
6. septum

15-2 What are the parts of the heart?

Enrichment Activity: Comparing Heart Valves

PART A

1. valve with two flaps located between the left atrium and the left ventricle; prevents backflow of blood into left atrium
2. valve with three flaps located between the right atrium and the right ventricle; prevents backflow of blood into right atrium
3. two moon-shaped valves located at the base of the aorta; allows blood to flow from left ventricle to aorta
4. two moon-shaped valves located at the base of the pulmonary artery; allows blood to flow from right ventricle to pulmonary artery

PART B

Check students' drawings. Sample drawing: Please see page 17 of the Answer Key for drawing with labels.

15-3 What are blood vessels?

Lesson Review

PART A

1. tubes that carry blood throughout the body
2. three
3. blood vessels that carry blood away from the heart
4. the largest artery in the body
5. blood vessels that carry blood to the heart
6. capillaries

PART B

1. c
2. a
3. b

Skill Challenge

1. Arteries
2. Veins
3. Veins
4. Arteries
5. Capillaries
6. Capillaries
7. Arteries

15-4 What is blood?

Lesson Review

Review

1. a fluid tissue that is part liquids and part solids
2. liquid part of blood
3. carry oxygen and carbon dioxide
4. defend the body against foreign substances
5. pieces of cells that are used for blood clotting
6. A, B, AB, and O
7. transfer some of blood from one person to another
8. Students should place check marks beside letters b, d, and e.

Skill Challenge

1. platelets
2. red blood cells
3. white blood cells

15-4 What is blood?

Enrichment Activity: Investigating Blood Types

PART A

1. B or O
2. A or AB
3. a. type O b. type AB
4. People with any blood type can receive type O blood.
5. People with AB blood can receive any other blood type.

PART B

Students' data will most likely resemble the percentages shown in the table, but may not match them exactly. Types A and O will likely be the most common types.

15-5 What happens to blood as it circulates?

Lesson Review

1. f
2. a
3. e
4. d
5. c
6. b

Skill Challenge

- a. 3
- b. 8
- c. 1
- d. 7
- e. 12
- f. 11
- g. 2
- h. 9
- i. 6
- j. 5
- k. 4
- l. 10

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Chapter 1test

CO Houle



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