## **Lesson Outline**

**LESSON 1** 

## **Transport and Defense**

A.	The	Body's	Organization
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1.		are groups of	organs in	the body	that work	together	to
	form a specific task.						

- **2.** Organ systems work together to maintain \_\_\_\_\_\_, or steady internal conditions, even when external conditions change.
- **B.** Digestion and Excretion
  - **1.** Food is broken down in the body during \_\_\_\_\_\_.
    - **a.** After food enters the mouth, \_\_\_\_\_\_\_ breaks food into smaller parts.
    - \_\_\_\_\_, which contains enzymes, also helps the mouth break down food.
  - 2. When you swallow, food, water, and other liquids move into the \_\_\_\_\_, a hollow tube that connects the mouth to the

stomach. **3.** From the stomach, food next moves into the \_\_\_\_\_\_, which

- has functions of digestion and absorption. \_\_\_\_\_, or colon, receives digested food that the small
- \_\_\_\_\_ are the parts of food needed for the body to grow and survive.

intestine did not absorb and absorbs water from the remaining waste material.

- **a.** Nutrition labels on food show the amount of each \_\_\_\_\_\_ in a food.
- **b.** Nutrients in absorbed food contain energy, which is measured
- **6.** After digestion, substances that are not used are removed by the \_\_\_\_\_, which includes the lungs, skin, liver, kidneys, bladder, and rectum.
- **C.** Respiration and Circulation
  - **1.** The \_\_\_\_\_\_ exchanges gases between the body and the \_\_\_\_\_ enters the body when you inhale. environment. \_\_\_\_\_ leaves the body when you exhale.

## **Lesson Outline continued**

- **2.** The heart, blood, and blood vessels make up the \_\_\_\_\_\_.
  - **a.** Your \_\_\_\_\_\_ is made up of muscle cells that constantly contract and relax, pumping blood to the rest of your body.
  - **b.** Blood travels through your body in tiny tubes called \_\_\_\_\_
  - **c.** The three main types of blood vessels are arteries, veins, and \_\_\_\_\_\_.
- **3.** Blood contains red blood cells, \_\_\_\_\_\_, and white blood cells.
  - **a.** The liquid part of blood is called \_\_\_\_\_\_.
  - **b.** \_\_\_\_\_ carry oxygen, and \_\_\_\_\_ protect the body from infection and disease.
  - **c.** \_\_\_\_\_ help the body heal when you get a cut.
  - **d.** Scientists classify the proteins found on the surface of red blood cells into groups called \_\_\_\_\_\_, which include, type A, type B, type AB, and type O.
- **4.** The tonsils, the spleen, the thymus, bone marrow, and lymph nodes are part of the \_\_\_\_\_\_. The lymphatic system has three main functions removing excess \_\_\_\_\_\_, producing \_\_\_\_\_, and absorbing and

transporting \_\_\_\_\_

- **5.** Protection from infection or toxins is called \_\_\_\_\_
  - **a.** The \_\_\_\_\_\_ system produces immune cells, and the \_\_\_\_\_\_ system transports them throughout the body.
  - **b.** As part of the first line of defense, and \_\_\_\_\_\_ prevent toxins and other substances from entering the body.
  - **c.** During the second line of defense or the immune response,

\_\_\_\_\_ attack and destroy harmful substances.

**d.** The third line of defense includes \_\_\_\_\_ and \_\_\_\_\_, which help fight pathogens that have infected the body.