

SECTION 17.2 | THE DIGESTIVE SYSTEM BREAKS DOWN FOOD.  
**17.2 Reading Study Guide B**

**BIG IDEA** Systems in the body obtain and process materials and remove waste.

**KEY CONCEPT** The digestive system breaks down food.

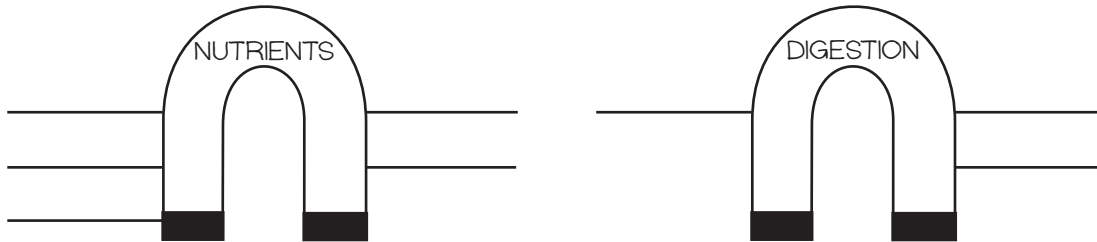
**Review**

Oxygen is necessary for cellular respiration.

**Take Notes**

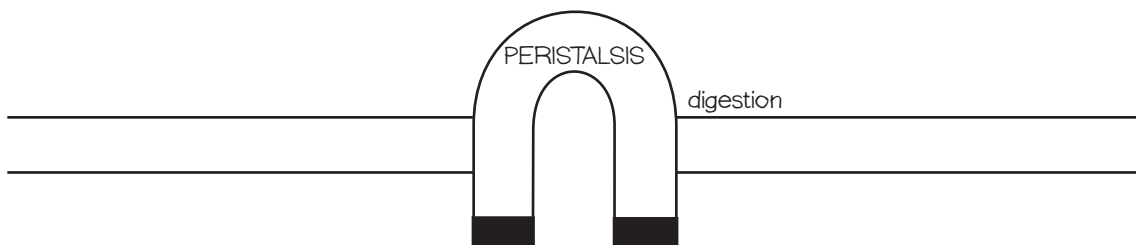
**I. The body needs energy and materials. (p. 607)**

1. Fill in the word magnet with information about nutrients and digestion.



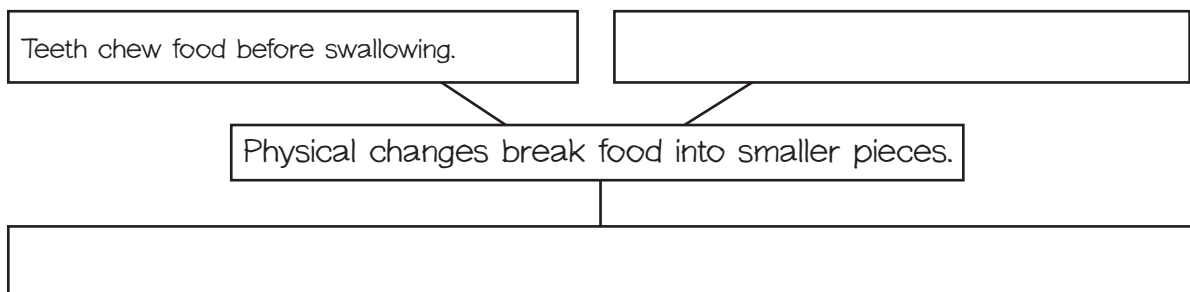
**II. The digestive system moves and breaks down food. (p. 608)**

2. Fill in the word magnet with information about peristalsis.



**A. Mechanical Digestion (p. 609)**

3. Fill in the main-idea web with information that describes how physical changes break food into smaller pieces.



**B. Chemical Digestion (p. 609)**

4. How are chemical digestion and mechanical digestion different?

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**III. Materials are broken down as they move through the digestive tract. (p. 610)**

5. Fill in the outline about how materials move through the digestive tract.

I. The mouth and esophagus are the first steps in digestion.

A. Both mechanical and chemical digestion begin in the mouth.

B. \_\_\_\_\_

II. The stomach is the second step in digestion.

A. \_\_\_\_\_

III. After the stomach, food moves to the small intestine.

A. \_\_\_\_\_

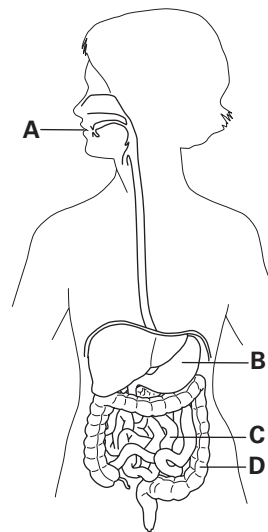
B. \_\_\_\_\_

V. After the small intestine, food moves to the large intestine.

A. \_\_\_\_\_

6. In what area, A, B, C, or D, are most of the nutrients absorbed? What is the name of the organ in this area?

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**IV. Other organs aid digestion and absorption. (p. 612)**

7. How do the liver, gallbladder, and pancreas help in digestion?

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