

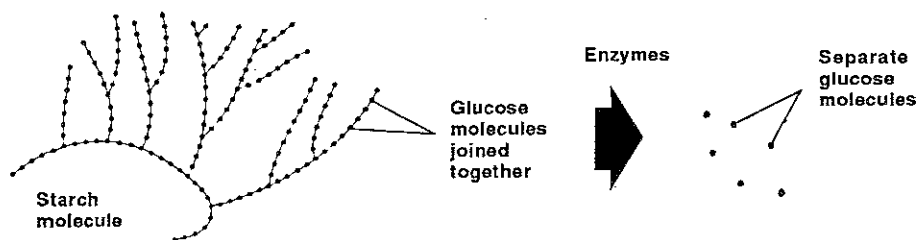
**Chapter 21 Digestion****Section Review 21-1****The Digestive Process**

**Part A:** Complete Table 1 by placing a check mark in the correct column to indicate whether each phrase describes mechanical or chemical digestion.

**Table 1 Mechanical and Chemical Digestion**

Description	Mechanical Digestion	Chemical Digestion
1. The physical changes that occur to food.		
2. The starch in crackers is broken down into simple sugars.		
3. Proteins are changed to amino acids.		
4. Large pieces of food are broken down into smaller pieces.		
5. The chemical changes that occur to food.		
6. Large food molecules are broken down into smaller molecules.		
7. Food is torn apart and chewed.		
8. Enzymes are used to break down food molecules.		

**Part B:** Study the diagram. Answer the questions in the spaces provided.



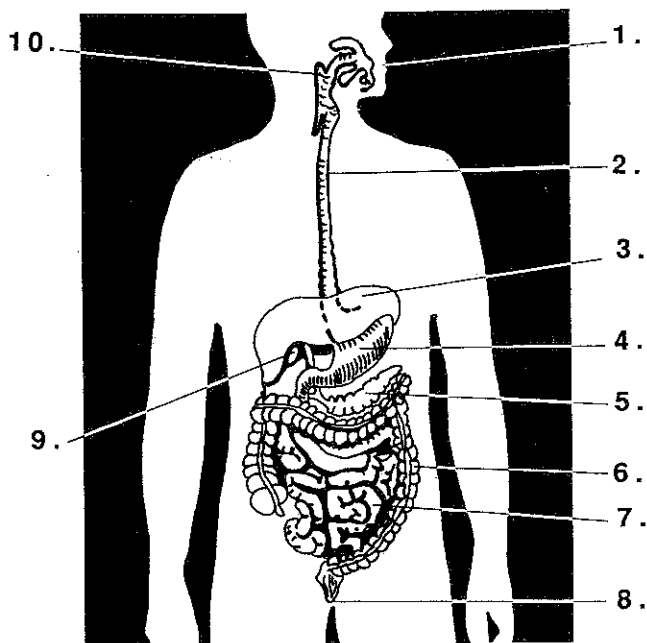
- What does the diagram illustrate? \_\_\_\_\_
- What is the end product of the chemical reaction shown? \_\_\_\_\_
- What important chemicals speed up chemical digestion? \_\_\_\_\_
  - How do these chemicals work? \_\_\_\_\_
- Why must starch be broken down into small molecules before it can be used by the body? \_\_\_\_\_

# Chapter 21 Digestion

## Section Review 21-2

### The Digestive System

**Part A:** Study the diagram of the digestive system. Label each part of the digestive system on the lines provided. Then, circle the names of the digestive organs that are not part of the alimentary canal.



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

**Part B:** Complete the following sentences in the space provided. Writing the correct number from the diagram of the digestive system.

1. The \_\_\_\_\_ is a long muscular tube that connects the mouth to the stomach.
2. Bile is produced in the \_\_\_\_\_.
3. Solid wastes are eliminated from the body through the \_\_\_\_\_.
4. Water and minerals are absorbed into the blood in the \_\_\_\_\_.
5. The \_\_\_\_\_ releases digestive juices into the small intestine.
6. Food enters the digestive system through the \_\_\_\_\_.
7. The \_\_\_\_\_ stores bile.
8. When food is swallowed, it enters the \_\_\_\_\_.
9. Most of the chemical digestion of food and the absorption of food takes place in the \_\_\_\_\_.
10. The \_\_\_\_\_ stores and breaks down food.

**Part C:** Match the terms with the descriptions. Write the terms in the spaces provided.

bile appendix chyme gastric juice rectum epiglottis feces saliva peristalsis pepsin

- \_\_\_\_\_ 1. Begins the chemical digestion of food
- \_\_\_\_\_ 2. Begins the chemical digestion of proteins
- \_\_\_\_\_ 3. Thick liquid released into the small intestine
- \_\_\_\_\_ 4. Wavelike movement that moves food through the digestive system
- \_\_\_\_\_ 5. Flap of tissue that covers the windpipe
- \_\_\_\_\_ 6. Lower part of the large intestine
- \_\_\_\_\_ 7. Breaks down large drops of fat
- \_\_\_\_\_ 8. Solid waste materials
- \_\_\_\_\_ 9. Small, fingerlike sac
- \_\_\_\_\_ 10. Contains pepsin, mucus, and hydrochloric acid

**Part D:** Complete Table 1. In the space provided, fill in the missing information.

**Table 1 Summary of Digestion**

Nutrient	Where Digestion Begins	Where Digestion is Completed	Where Absorption Occurs
Proteins	Stomach	1.	2.
Carbohydrates	3.	Small intestine	4.
5.	Small Intestine	6.	Small intestine

**Chapter 21 Digestion****Section Review 21-3****Problems of the Digestive System**

**Part A:** Complete Table 1. In the space provided, fill in the missing problem, cause, or effect.

**Table 1 Digestive System Problems**

Problem	Cause	Effect
1.	2.	cavity
indigestion	3.	pain or discomfort after eating
heartburn	acidic juices from the stomach go up the esophagus	4.
5.	not completely understood; stress is a contributing factor	hole in the lining of the stomach or small intestine
6.	stress; viruses and bacteria	watery wastes

**Part B:** Answer the questions in complete sentences.

1. Which problem of the digestive system is the most common? \_\_\_\_\_
2. What is plaque? \_\_\_\_\_  
\_\_\_\_\_
3. What digestive problem develops when stomach acids eat away the lining of stomach or small intestine? \_\_\_\_\_  
\_\_\_\_\_
4. What is one kind of treatment for ulcers? \_\_\_\_\_

## Chapter 21 Digestion

## Vocabulary Review

### Word Search

Read each description. Write the word or words in the blanks. The letters inside the squares will spell the main topic of the chapter. Write the topic in the space provided.

- |  |   |
|--|---|
| 1. Process by which large food molecules are broken into smaller molecules               | 7. Process that physically breaks down food into small pieces       |
| 2. Liquid that breaks down large drops of fat into tiny droplets                         | 8. Contains an enzyme that starts the chemical digestion of food    |
| 3. Flap of tissue that covers the opening to the windpipe                                | 9. Hole in the lining of the stomach or small intestine             |
| 4. Film that forms on the teeth  | 10. Enzyme that begins the chemical digestion of protein            |
| 5. Small organ below the stomach that releases digestive juices into the small intestine | 11. Passageway for both food and air                                |
| 6. Wavelike movement that moves food through the digestive system                        | 12. Solid waste materials   |
|  | 13. Lower part of the large intestine                               |
|  | 14. Proteins that control chemical reactions in the body            |
|  | 15. Thick liquid released from the stomach into the small intestine |

1.	_____	<input type="text"/>	_____
2.	_____	<input type="text"/>	_____
3.	_____	<input type="text"/>	_____
4.	_____	<input type="text"/>	_____
5.	_____	<input type="text"/>	_____
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Chapter Topic: \_\_\_\_\_