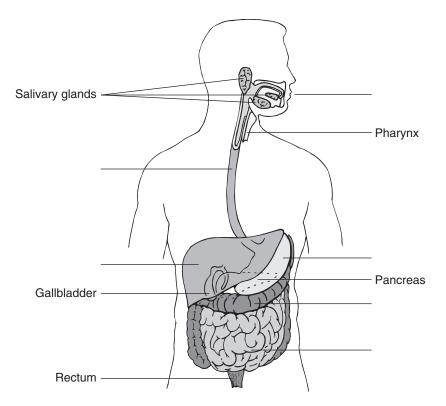
Section 38–2 The Process of Digestion (pages 978–984)

TEKS FOCUS: 3C Impact of research on scientific thought and society; 10A Function of the digestive system; **TEKS SUPPORT:** 4D Role of bacteria in maintaining health

This section describes the organs of the digestive system and explains their functions.

The Mouth (pages 978–979)

- 1. What is the function of the organs of the digestive system?
- 2. The physical breakdown of large pieces of food into smaller pieces is referred to as _____ digestion.
- 3. The breakdown of large food molecules into smaller molecules that can be absorbed into the bloodstream is called ______ digestion.
- 4. Label the drawing of the digestive system with the following structures: mouth, esophagus, stomach, liver, small intestine, and large intestine.



5. What is the role of teeth in digestion?

Name		Class	Da	ite
The Esophagus	(page 980)			
Match each term with	tits definition.			
T		•		

Term	Definition
6. bolus	a. Contractions of smooth muscle that aid in swallowing
7. esophagus	b. Clump of chewed food
8. peristalsis	c. Food tube connecting the mouth and stomach

^{9.} Is the following sentence true or false? The pyloric valve prevents the contents of the stomach from moving back up into the esophagus. _____

The Stomach (pages 980–981)

10. Circle the letter of each sentence that is true about the stomach.

- **a.** It produces hydrochloric acid.
- **b.** It produces trypsin.
- **c.** It helps in the mechanical digestion of food.
- **d.** It produces amylase.
- **11.** Is the following sentence true or false? Pepsin cannot work under the acidic conditions present in the stomach. ______
- **12.** A mixture of stomach fluids and food is referred to as ______.

The Small Intestine (pages 981–982)

13. Where does most chemical digestion take place?

- **14.** Circle the letter of each sentence that is true about the pancreas.
 - **a.** It produces amylase.
 - **b.** It produces sodium bicarbonate.
 - c. Its enzymes help break down lipids and nucleic acids.
 - **d.** It produces lactase.
- **15.** What role does the liver play in digestion? _____

16. Bile is stored in a small pouchlike organ called the ______.

Absorption in the Small Intestine (pages 982–983)

- **17.** Name the two parts of the small intestine where nutrients are absorbed.
 - a. _____
 - b. _____

	Date				
18. Projections that cover the folds of the small intestine are called					
9. Is the following sentence true or false? Molecules of undigested fat and some fatty					
acids are absorbed by lymph vessels called lacteals.					
0. Is the following sentence true or false? The appendix plays an important role in human					
igestion					
The Large Intestine (page 984)					
Vhat is the primary job of the large intestine?					
	ojections that cover the folds of the small intestine are called the following sentence true or false? Molecules of undigested fa ids are absorbed by lymph vessels called lacteals the following sentence true or false? The appendix plays an im- gestion Large Intestine (page 984)				

Digestive System Disorders (page 984)

- 22. A hole in the stomach wall is known as a(an) _____
- **23.** When something happens that interferes with the removal of water by the large intestine, a condition known as ______ results.

Reading Skill Practice

When you read about a complex process, representing the process with a flowchart can help you better understand and remember it. Make a flowchart to show how food travels through the digestive system and is broken down into simpler molecules that the body can use. For more information on flowcharts, see Appendix A of your textbook. Do your work on a separate sheet of paper.