

TEKS

- 9A** Compare the structures and functions of different types of biomolecules, including carbohydrates, lipids, proteins, and nucleic acids
- 9C** Identify and investigate the role of enzymes
- 10A** Describe the interactions that occur among systems that perform the functions of regulation, nutrient absorption, reproduction, and defense from injury or illness in animals
- 10C** Analyze the levels of organization in biological systems and relate the levels to each other and to the whole system
- 11A** Describe the role of internal feedback mechanisms in the maintenance of homeostasis
- 11B** Investigate and analyze how organisms, populations, and communities respond to external factors

instructional content:

- ✦ Types of Nutrients
- ✦ Digestion
 - Mechanical
 - Chemical
- ✦ Anatomy of Digestive System
 - Alimentary Canal
 - Accessory Organs
- ✦ Absorption of Nutrients
 - Structure of Small Intestine
 - Role of Circulatory System
- ✦ Excretory System Role in Homeostasis
- ✦ Anatomy of Urinary System

learning outcomes students will:

- Use all content and scientific process skills learned earlier in the course
- Name the six types of nutrients to maintain health
- Identify the organs and their functions within the digestive system
- Differentiate between mechanical and chemical digestion
- Describe the process of peristalsis
- Summarize the pathway a bolus of food would follow in the digestive system
- Explain the importance of enzymes in digestion
- Explain the importance of villi in the small intestine
- Identify the main function of the large intestine
- Describe the importance of bacteria in the guts of humans
- Explain how the excretory system maintains homeostasis
- Identify the major wastes produced by humans and the organs that eliminate them
- List the main organs of the urinary system and their functions
- Describe the main structures of the nephron and their function
- Summarize how nephrons form urine



Incorporate scientific process skills during the instruction of all Biology concepts.
Look for this icon at wardsci.com/TEKS for more information on scientific process skills.

Recommended Ward's Science products with item numbers for easy online searching: _____

science tools:

Altay® Digestive System Model **813349**
3B® Kidney Model **811163**
Denoyer-Geppert Urinary System Model **811048**

instructional resources:

Visual Learning Guides: Human Body **330477**
Digestive Walk-Thru Classroom Activity **181061**
Ward's What Influences Enzyme Activity? Lab Activity **361216**
Ward's Investigating Digestive Processes Lab Activity **366068**

Ward's Kidney Dialysis Simulation Lab Activity **366808**
How Do Our Kidneys Work? Lab Activity **368922**
Working Nephron Model **4685100**