Anatomy & Physiology:THE DIGESTIVE SYSTEM



► The **digestive system** breaks food down into usable components and expels waste.

TERMS

accessory organs: provide additional functions to aid the digestive tract in the digestion and absorption of nutrients

anus: opening of the rectum through which solid waste leaves the body

bile: substance that breaks down fat macronutrients

bolus: the mass of partially digested food as it travels through the esophagus into the stomach

carbohydrates: provide energy to cells, form cell structures

chemical digestion: the alteration of food into different substances

chyme: the mixture of food and digestive juices that moves from the stomach to the small intestine

colon: the longest part of the intestine, where water is reabsorbed

defecation: the excretion of solid waste through the anus

digestion: the process of diffusing nutrients digested from the food throughout the body for use in cellular respiration and energy production

digestive tract: the central tube through which food travels

esophagus: transports food from the throat to the stomach

extracellular digestion: ingesting food at the mouth and excreting it at the anus

gallbladder: stores and concentrates bile to break down fat macronutrients

ingestion: the process of taking in food

large intestine: organ where remaining water and nutrients are absorbed; compacts and stores remaining waste material until excretion

lipids: provide long-term storage, provide energy to cells

liver: produces bile; detoxifies digested toxins; extracts nutrients from blood before it moves to other parts of the body

mechanical digestion: the physical breaking down of food

pancreas: produces chemicals to decrease small intestine acidity and to break down fats, proteins, and carbohydrates

peristalsis: muscular contractions that produce waves to move food from one point to another

pharynx (throat): moves food from the mouth to the esophagus during swallowing

proteins: synthesize DNA, transport materials, provide fibrous structure, produce enzymes

rectum: organ located at the end of the large intestine where solid waste is stored before excretion

saliva: fluid released in the mouth during mastication (chewing) with enzymes that begin breaking down food

small intestine: organ where the majority of digestion and absorption occurs

villi: structures with multiple folds that line the small intestine, allowing maximum absorption of nutrients

