

Digestive System

Digestive System - the breaking down of food into ~~parts~~ substances the body can use.

Mechanical digestion - breaks food into smaller pieces

Chemical digestion - uses special proteins called enzymes to break up large food molecules into smaller molecules that can be taken in by cells.

Mouth - teeth grind food into smaller pieces
- saliva begins to break down complex starches into smaller sugars.

Epiglottis - flap of tissue prevents swallowed food from entering lung tissue.

Esophagus - carries food to the stomach

Liver - produces bile → stored in the gall bladder
Bile is released into the small intestine where it breaks up large fat molecules.

Pancreas - enzymes made here help break down carbohydrates and protein in small intestine.

Stomach - muscles grind food into smaller pieces. Gastric juices and hydrochloric acid made here break ~~apart~~ apart large protein molecules

Small intestine - liquid food moves from the Stomach. - most chemical digestion happens.

Villi - tiny fingerlike structure in the small intestine.

- absorbs ~~dig~~ digested food
- blood vessels in villi absorb nutrients
↳ carried to cells throughout body

Large intestine - materials that cannot be digested move here

- absorbs most of water still trapped in food waste
- solid that remains - feces

Rectum and Anus - Feces exit the large intestine through the rectum and ~~to~~ move out of the body through the anus.

Excretory System

Excretory system - remove waste products produced by cell activities

- many of the waste are eliminated by urine

↳ liquid produced in the urinary system

Urinary system - made up of kidneys, urinary bladder, ureters, and urethra

Kidneys - blood that enters the kidneys passes through millions of tiny filters called nephrons.

- liquid waste carried in by the blood collects in the filters and forms urine

Ureters - urine moves out of the kidneys and into the urinary bladder through long tubes called ureters.

Urinary bladder - urine is stored until it is eliminated from the body

Urethra - urine leaves the body through this.