

Tissue- Collection of cells working together to perform a function.

Body Systems- Collection of organs working together to perform a function.

Mechanical Digestion- Tearing, grinding and mashing of teeth and muscles.

Chemical Digestion- Digestive enzymes break chemical bonds so nutrients can be absorbed.

Digestive Enzymes- A protein that breaks down nutrients in order to be absorbed by the body.

Mouth- Mechanical digestion with tongue and teeth. Chemical digestion with saliva which contains **amylase**, an enzyme that breaks down starch into simple sugars.

Esophagus- Organ that connects mouth to the stomach.

Stomach- Mechanical digestion with the 3 layers of muscles that churn the food.

Gastric juice (water, enzymes, HCl) chemically digests food. **Pepsin** begins the break down of protein into amino acids.

Mucus is secreted by stomach cells to protect cells from gastric juice.

Small Intestine- Majority of nutrients are absorbed here. **Duodenum** is the first section of S.I. and most nutrients absorbed in this section. **Pancreatic juices** and **Bile** are secreted into S.I. to break down fats. Bile is made by the Liver and stored in the gall bladder.

Large Intestine- Absorbs water into the body.

Diffusion- Movement of molecules from high to low concentrations. (Passive Transport)

Active Transport- Energy from the cell used to pass molecules through cell membranes.