**Digestive System**

Autonomic (Parasympathetic) Nervous System

Organs (Know functions of each)

* Alimentary Canal (GI tract)
  + Mouth, Pharynx, Esophagus, Stomach, Small Intestines (Duodenum, Jejunum, Ileum), Large Intestines (Cecum, Colon), Rectum, Anus
    - Cardioesophageal and Pyloric Sphincters, Ileocecal Valve
* Accessory Organs
  + Liver, Pancreas, Gall bladder, teeth, salivary glands

Terms to Know:

Bolus

Chyme

Mastication

Salivary Amylase

Bile

Peristalsis

Segmentation

Deglutition

Structure of Stomach Mucosa (and function of the cells!)

* Mucous Neck Cells
* Gastric Glands
* Chief Cells
* Parietal Cells
* Enteroendocrine Cells

Functions of Digestive System

1. Ingestion 4. Chemical Digestion

2. Propulsion 5. Absorption

3. Mechanical Digestion 6. Defecation

Process of Food Breakdown, Digestion, and Absorption in Stomach

* Gastrin, HCl, Pepsin, (Rennin – digests milk proteins in infants)

Process of Food Breakdown, Digestion, and Absorption in Small Intestines

* Brush Border
* Pancreatic Enzymes
  + Secretin
  + Cholecystokinin
    - Bile

Process of Food Breakdown, Digestion, and Absorption in Large Intestines

Metabolism

* Catabolism vs. Anabolism
* Carbohydrates
  + Hyper vs. Hypoglycemia
* Lipids
  + Acidosis
* Proteins
* Liver
  + Glycogenesis, glycogenolysis, gluconeogenesis
* Cholesterol
  + Function (LDL’s and HDL’s)