

25: Steps of DIGESTION

- ❑ **Ingestion:** taking in food
 - ❑ **Digestion:** breaking down food into nutrients
 - ❑ **Absorption:** taking in nutrients by cells
 - ❑ **Egestion:** removing any leftover wastes
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26: Types of DIGESTION

☐ Mechanical (**physical**)

- ☐ Mouth / Teeth / Stomach
 - Chew, Tear, Grind, Mash, Mix

☐ Chemical

- ☐ **ACIDS and ENZYMES** breakdown:
 - **Carbohydrates** (sugars / starches)
 - **Proteins** (meat / nuts)
 - **Lipids** (fats / oils)
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27: Digestive System Parts

- 1 **MOUTH:** mechanical breakdown, starts chemical of carbs by saliva
 - 2 **ESOPHOGUS:** “food tube” to stomach, secretes lubricating mucus, PERISTALSIS
 - 3 **STOMACH:** “J” shape mechanical muscle / enzymes and acids chem. breakdown of fats, proteins
 - 4 **SMALL INTESTINE:** absorption
 - **VILLI- diffusion of nutrients into capillaries**
 - 5 **LARGE INTESTINE:** absorbs water
 - 6 **RECTUM:** stores feces / whatever is left
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28: Circulatory System

- ☐ - **transport oxygen and nutrients to cells**
 - ☐ - **carry wastes away from cells** to organs for disposal
 - ☐ PARTS
 - **HEART**- pumps
 - **BLOOD**
 - ☐ **Ateries away** from Heart / Veins toward
 - ☐ CAPILLARIES: tiny vessels that connect them
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29: Parts of Heart

- ❑ **SEPTUM** – divides the heart into two sides
 - ❑ **ATRIUM** – Upper chambers of the heart
(receive the blood – thinner walls)
 - ❑ **VENTRICLES** – Lower chambers of the heart
(pumps blood out of the heart – thicker muscular walls)
 - ❑ **VALVES** help stop the blood from flowing backwards
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30: Blood Cells

- ❑ **RED** : no nucleus / dohnut shaped / carry oxygen to cells / made in bone marrow
 - ❑ **WHITE** : large / no shape / identify and kill pathogens (microscopic invaders, microbes) / have nucleus
 - ❑ **PLATELETS:** very small / clotting / heals cuts
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