

Everything!

① Mouth

- mechanical

- mastication (chewing) → break food into chunks

- chemical

- salivary amylase released

↓ from salivary glands

- SA → breaks down starch into disaccharides

* chewed food & saliva = bolus which is swallowed

①A Salivary Glands

↓
1st
accessory
organ

- 3 glands: - sublingual (under tongue)

- submandibular (under jaw)

- parotid (cheek)

- they produce salivary amylase and release it into the mouth via ducts

② Pharynx

- connects mouth to esophagus

- location of epiglottis

↳ blocks windpipe when swallowing

③ Esophagus

* muscular tube

* peristalsis occurs

↳ wave-like motion pushing ~~food~~ ^{bolus} down

↳ part of mechanical digestion

④ Stomach

- mechanical di.

↳ churning motion from the muscles in the stomach

↳ rough interior rugae

- chemical di.

↳ HCl = acid breaks down food

↳ ~~mucus~~ = protects inside of stomach from the HCl

↳ pepsin = breaks proteins into peptides

↳ gastric lipase = breaks down butter fats into fatty acids & glycerol

* structure

↳ esophageal sphincter = close off esophagus

↳ pyloric sphincter = allows chyme through to the small intestine

feed to stomach
juices

⑤ Small Intestine

- 3 parts → ~~duo~~, ~~jeju~~, ileum.
duodenum, jejunum

- mechanical dig.

↳ segmentation → muscular movement

↳ mixing chyme w/ bile/secretions

↳ bile emulsifies fats

- chemical d.

↳ peptidase → peptides into amino acids

↳ sucrase, maltase, lactase → disaccharides into monosaccharides

↳ intestinal lipase → fats into fatty acids

②A Pancreas

↓
2nd
accessory
organ

→ connects to duodenum via ducts

→ chemical d.

↳ p. amylase = starch into disacc.

↳ p. lipase = fats into fatty a.

↳ trypsin, chymotrypsin = protein into peptides

↳ carboxy peptidase = peptides into amino acids

↳ nuclease = nucleic acids to nucleotids

③A Liver

* produces bile & secretes into sm. intestine

↳ emulsifies fats

↳ neutralizes stomach acid.

④ Gall Bladder

- ↳ stores bile from liver
- ↳ connects to sm. intestine via duct

⑥ Large Intestine

- ↳ absorbs water & salts and vitamins
- ↳ forms feces

⑦ ANUS

- ↳ end of the GI tract
- ↳ internal sphincter
- ↳ external sphincter