

INGESTION OF FOOD

↳ TEETH FOR CUTTING & CRUSHING FOOD

MECHANICAL DIGESTION = ↑ S.A.

INCISOR CANINE PREMOLARS & MOLARS

CHEMICAL DIGESTION

↳ SALIVA CONTAINS SALIVARY AMYLASE

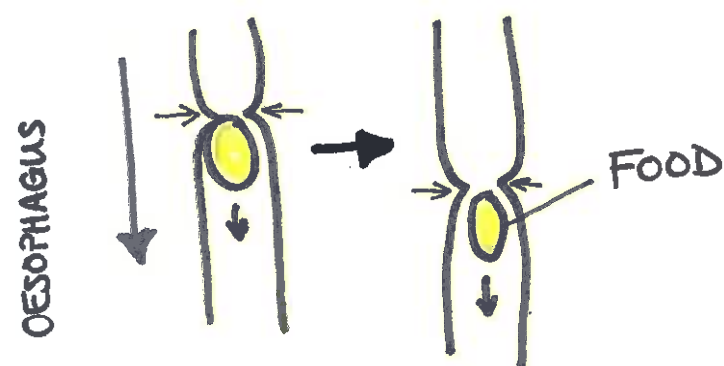
STARCH $\xrightarrow{\text{AMYLASE}}$ MALTOSE (DISACCHARIDE)
(S.A.M.)

PERISTALSIS - WAVE-LIKE CONTRACTIONS
OCCUR THROUGHOUT ALIMENTARY CANAL

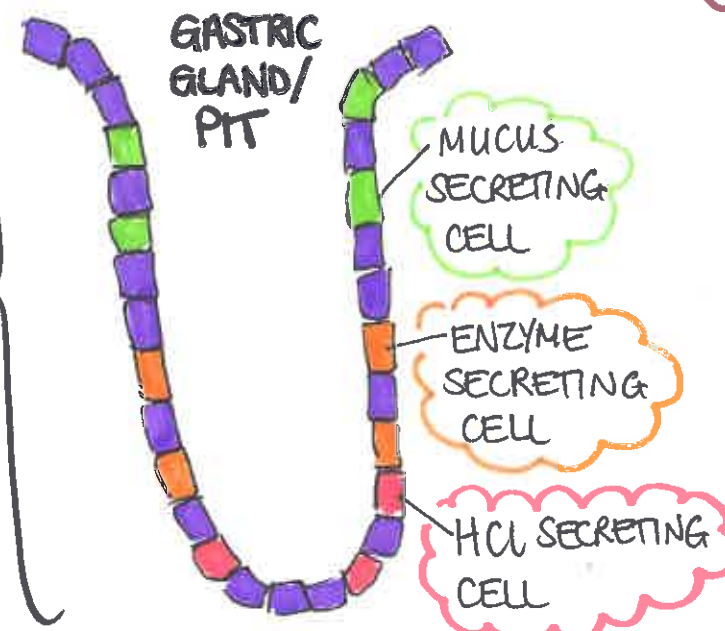
↳ FOOD TRAVELS DOWN THE OESOPHAGUS

↳ CIRCULAR MUSCLES CONTRACT BEHIND FOOD & RELAX IN FRONT

↳ LONGITUDINAL MUSCLES CONTRACT & RELAX WHEN SWALLOWING



GASTRIC GLANDS FOUND IN MUCOSA (LINING OF THE STOMACH)



MUCOSA OF STOMACH CONTAINS SPECILISED CELLS THAT SECRETE GASTRIC JUICE → CHEMICAL DIGESTION

1. MUCUS - PROTECTS STOMACH LINING
NO ABSORPTION HERE

2. PEPSINOGEN - INACTIVE ENZYME
ACTIVATED BY HCL

3. HCL - ACTIVATES PEPSINOGEN
- PROVIDES OPTIMUM CONDITIONS FOR PEPSIN TO WORK

PEPSIN BREAKS DOWN PROTEIN TO PEPTIDES

DIGESTIVE SYSTEM 1

PYLORIC SPHINCTER
= PREVENTS STOMACH CONTENTS ESCAPING

DUODENUM
START OF THE SMALL INTESTINE

OESOPHAGEAL SPHINCTER

MUCOUS MEMBRANE

3 TYPES OF MUSCLE IN STOMACH WALL

↳ OBLIQUE
↳ CIRCULAR
↳ LONGITUDINAL

AIDS MIXING OF GASTRIC JUICES



MECHANICAL DIGESTION
MUSCULAR CONTRACTION = FOOD CHURNING & MIXING WITH GASTRIC JUICE