Ms. Teeling Home Ec

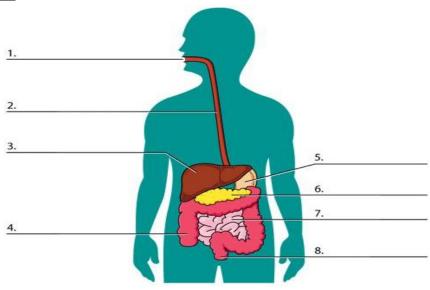
The Digestive System

Digestion: is the process by which nutrients are broken down into simple molecules that can be absorbed into the bloodstream.

Chemical	Physical (Mechanical)
Using ENZYMES	Chewing / Grinding (MOUTH)
	Churning the food (STOMACH & OESOPHAGUS)

Functions of the digestive system:

- 1. Food is broken down into smaller pieces
- 2. Nutrients are absorbed into the bloodstream to be used by the body
- 3. Waste is egested



Juices in the digestive system (contain ENZYMES)

1. Stomach → GASTRIC juice	2. Mouth → Saliva
3. Pancreas → pancreatic juice	4. Intestine → intestinal juice

Chemical Digestion:

Enzyme	Substrate	Product
1. Amylase	Starch	Maltose (or Glucose)
2. Pepsin	Protein	Amino acids

Parts of the	Function
digestive system	
1. Mouth	Physical digestion – teeth
	Chemical digestion – salivary amylase
2. Oesophagus	Food from mouth → stomach
	PERISTALSIS – wave like muscular contractions
3. Stomach	Physical digestion – churns
	Chemical digestion → pepsin converts protein into amino acids
	pH 2
4. Small intestine	Bile made in the liver flows into the intestine – EMUSLIFY fats.
	Absorption of nutrients - villi to increase absorption
5. Large intestine	Small intestine → anus
	Absorbs water + eliminates waste

How to maintain a healthy digestive system?

Increase intake of fibre – RDA 30g, Drink lots of water – RDA 8 glasses,

Reduce alcohol consumption, Visit doctor with stomach complaints e.g. stomach ulcers