

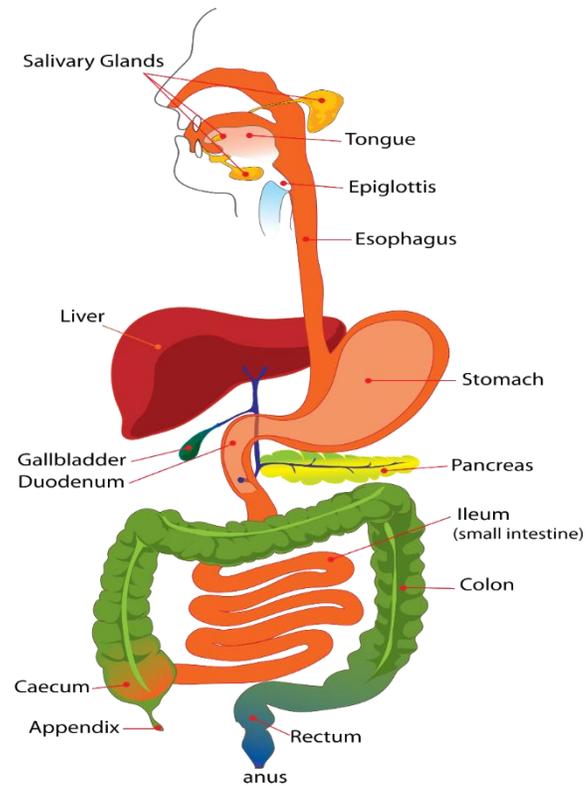
The Digestive System

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Objective 7.L.1.4

- ▶ Summarize the function of a major system of the human body(digestive) and ways that this system interacts with others to sustain life through the teaching of this lesson

Diagram of the digestive system



Facts

- ▶ We eat 500kg of food a year
- ▶ 1.7 liters of saliva is produced every day
- ▶ An adults stomach can hold about 1.5 liters of material
- ▶ The esophagus is about 25cm long

How the Digestive System Works

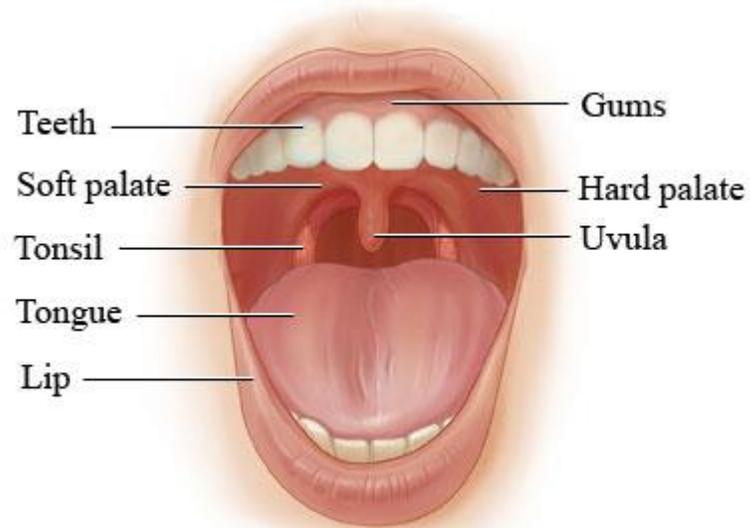
- ▶ The digestive system works by moving food through the GI track.
- ▶ Digestion begins in the mouth with chewing and ends in the small intestine.
- ▶ When the food moves through the GI track it mixes with digestive juices, which causes it to break down.

Why is Digestion important?

- ▶ Its important for breaking down food into nutrients, which the body uses for energy, growth, and cell repair.
- ▶ The body breaks down nutrients from food and drink into carbohydrates, protein ,fats, and vitamins.

Mouth

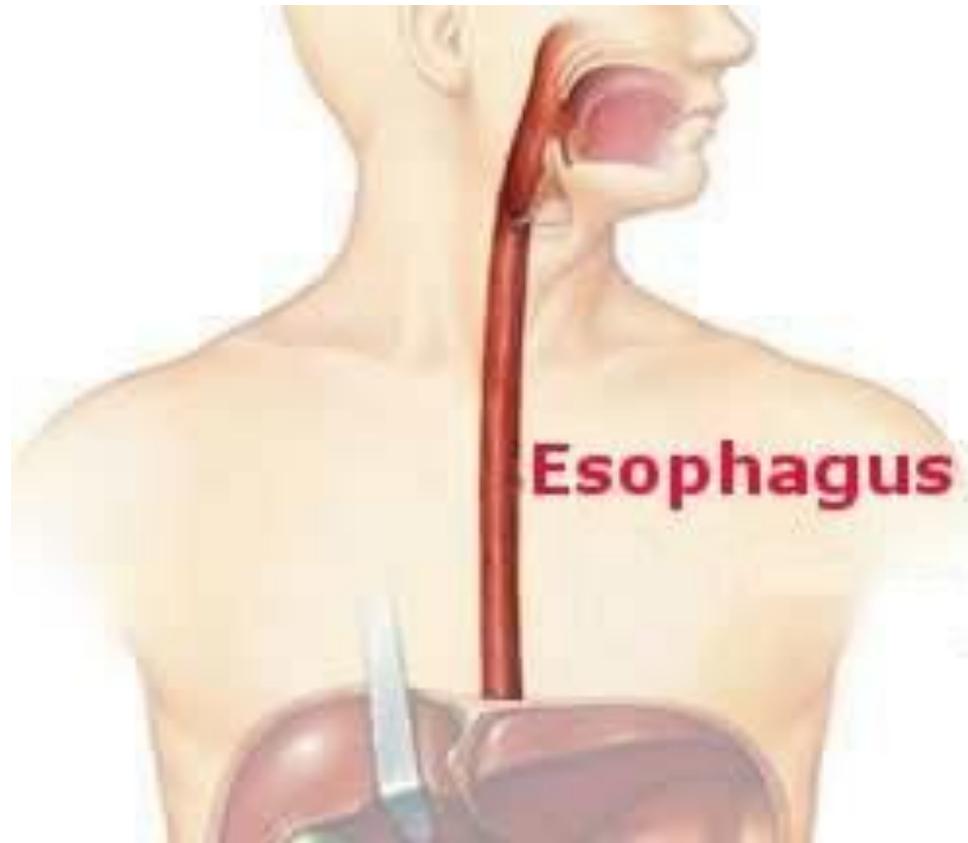
- ▶ The mouth is used for chewing food into smaller parts.
- ▶ Salivary glands start producing saliva to lubricate your food.



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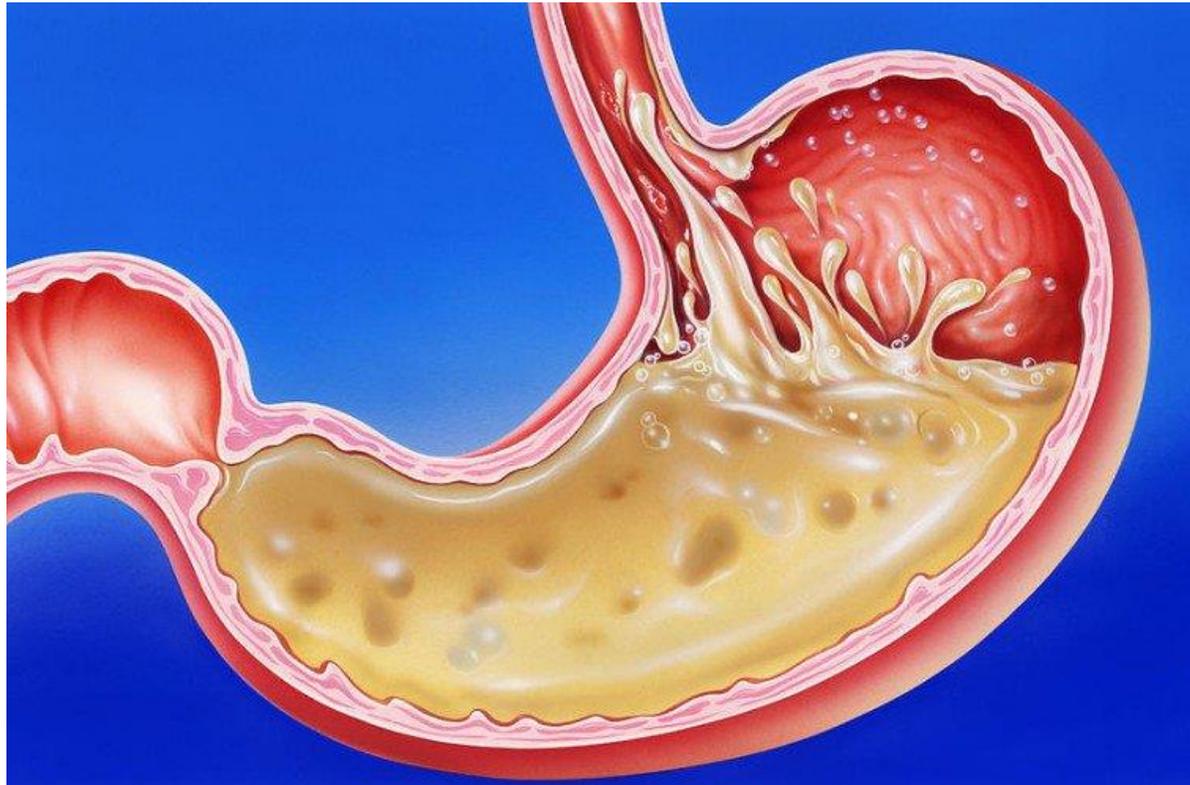
The Esophagus

- ▶ Once your food is chewed down and easy to swallow, there are muscles in your throat and mouth that push the food down to the stomach.



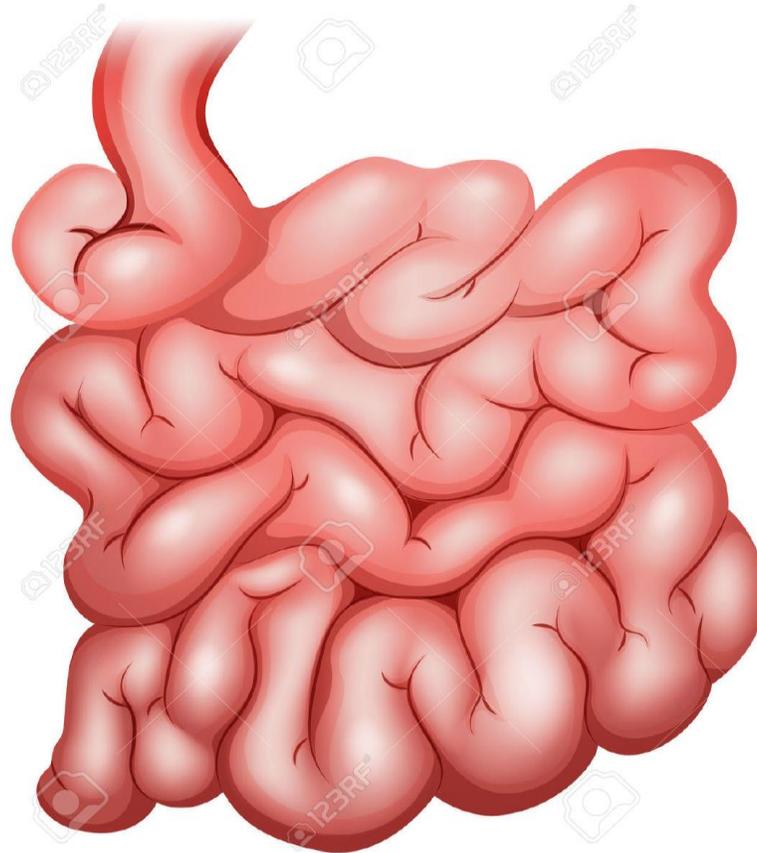
stomach

- ▶ The stomach has acid that breaks down food even more



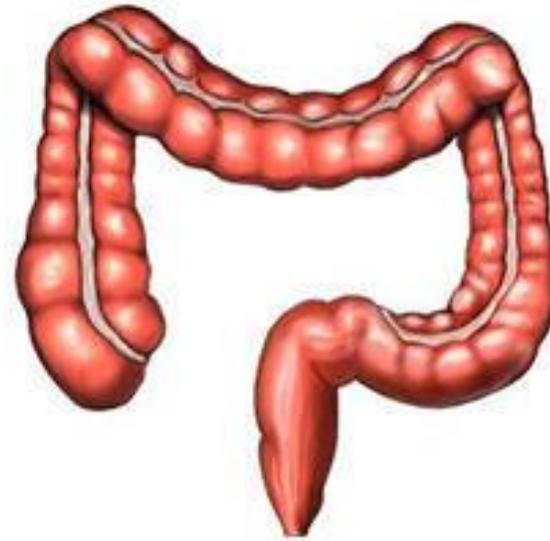
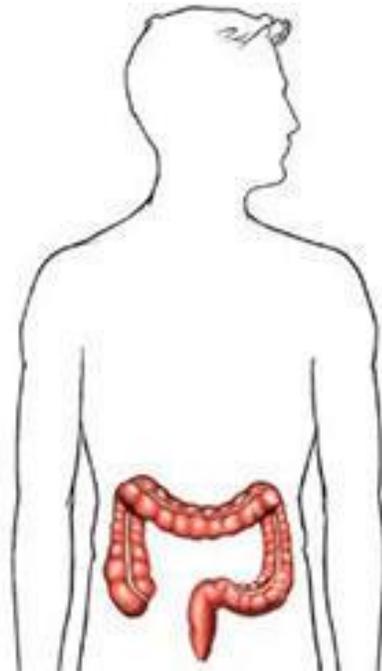
Small intestine

- ▶ The small intestine is a long tube that absorbs about 90% of the nutrients in our food



Large intestine

- ▶ The large intestine absorbs vitamins and water from food and converts digested food into poop



The Large Intestines

Rectum

- ▶ Eliminates waste through the process of defecation (A.K.A pooping)



Mechanical vs chemical digestion

- ▶ Mechanical: physically breaking down the food using the teeth



- ▶ Chemical: breaking down food with stomach acid



How does the digestive system interact with the other systems?

- ▶ Excretory: the digestive system sends waste to the excretory system.
- ▶ Circulatory: nutrients from the digestive system are carried through the body because of blood in the bloodstream
- ▶ Respiratory: muscles used in the diaphragm and the lungs to breathe in takes energy, and it gets the energy from the nutrients in the digestive system

Guess what time it is?????

Kahoot time!!!!