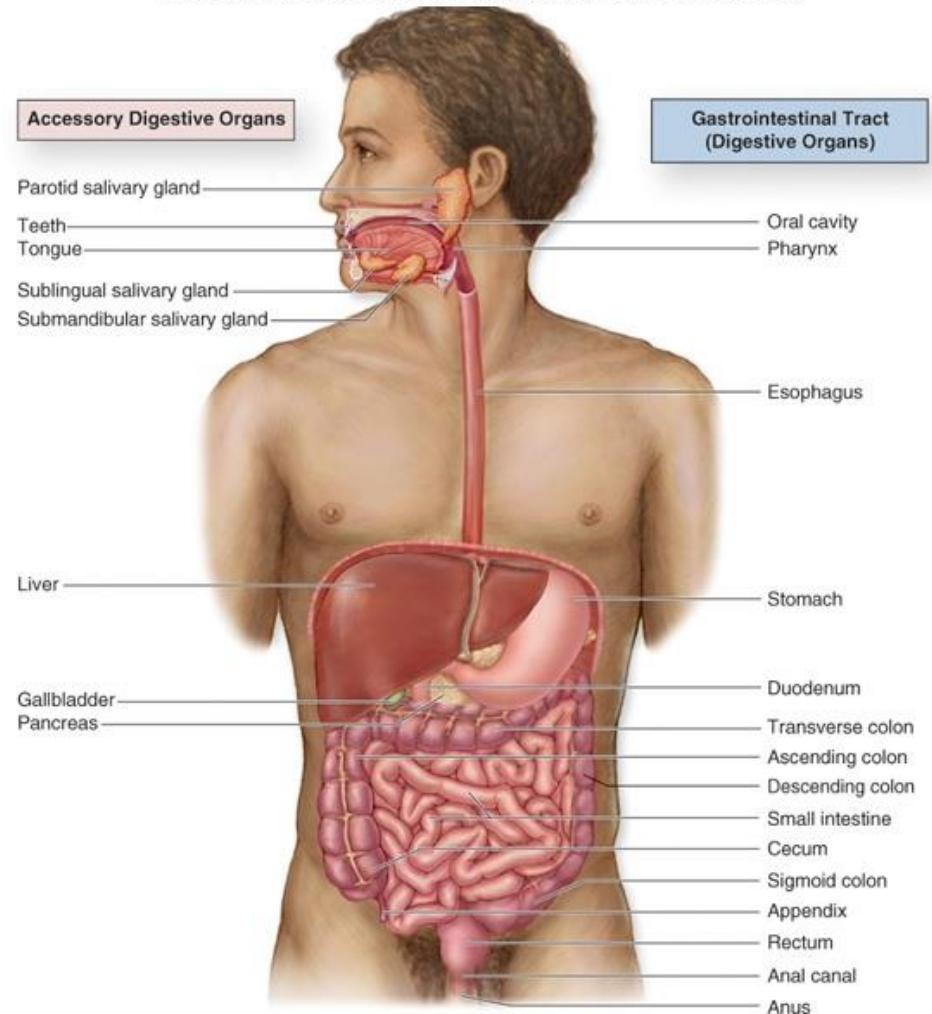


Functions of the Digestive System

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- **Breaks** down food into nutrients that your body can use
- **Filters** out harmful substances
- **Prepares** waste to leave the body



Check For Understanding

Which of the following is a function of the digestive system?

A. It provides oxygen to the body.

B. It produces new offspring.

C. It breaks down food so the body can use it.

D. It gives the body its shape.

Check For Understanding

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Two Types of Digestion

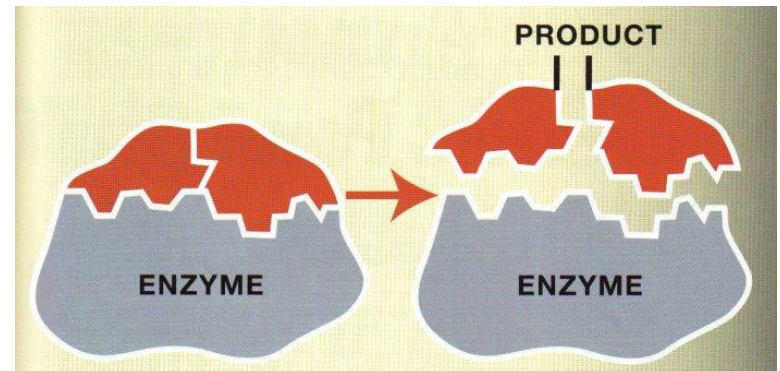
Mechanical Digestion

- Breaking, crushing, mashing food into smaller pieces
- Done by teeth and stomach



Chemical Digestion

- Chemicals transform large molecules into smaller particles
- Causes chemical changes – NEW Substance formed
- Done by saliva, stomach, small intestine



Check For Understanding

Which statement about digestion is true?

- A. Saliva digests food mechanically; teeth digest it chemically.
- B. Mechanical digestion and chemical digestion occur in the large intestine.
- C. Enzymes digest food chemically; teeth digest food mechanically.
- D. Chemical digestion mashes up food; mechanical digestion breaks it up with enzymes.

Check For Understanding

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- A. Saliva digests food mechanically; teeth digest it chemically.
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The Digestive Tract

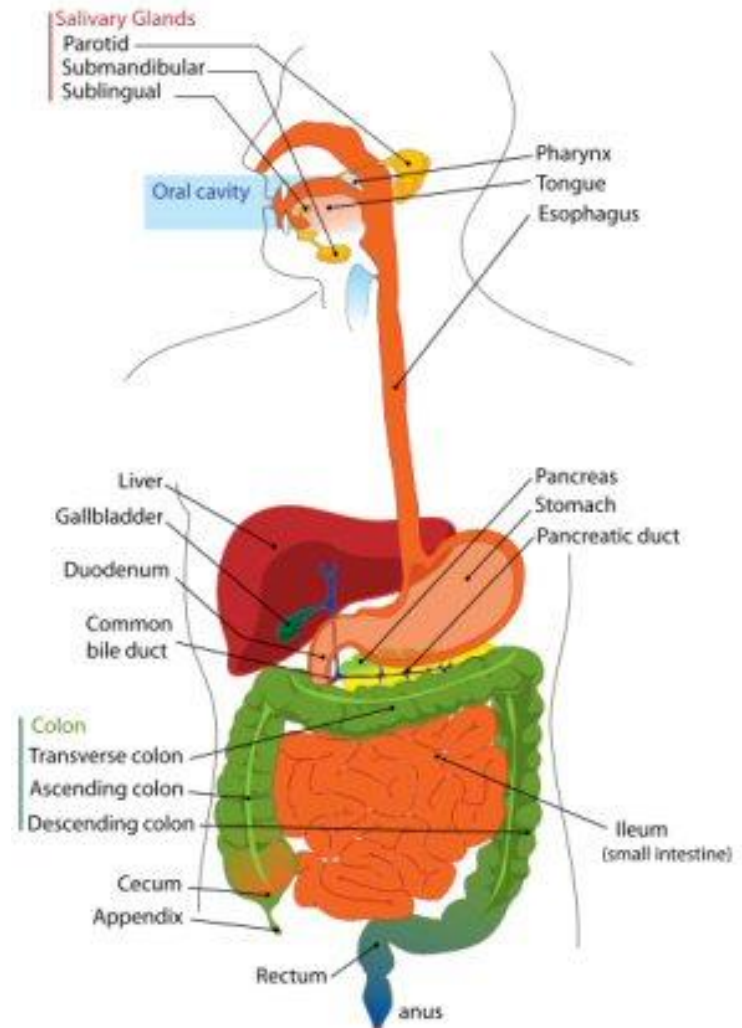
Where does food pass through?

TRACT

- Mouth
- Esophagus
- Stomach
- Small Intestine
- Large Intestine

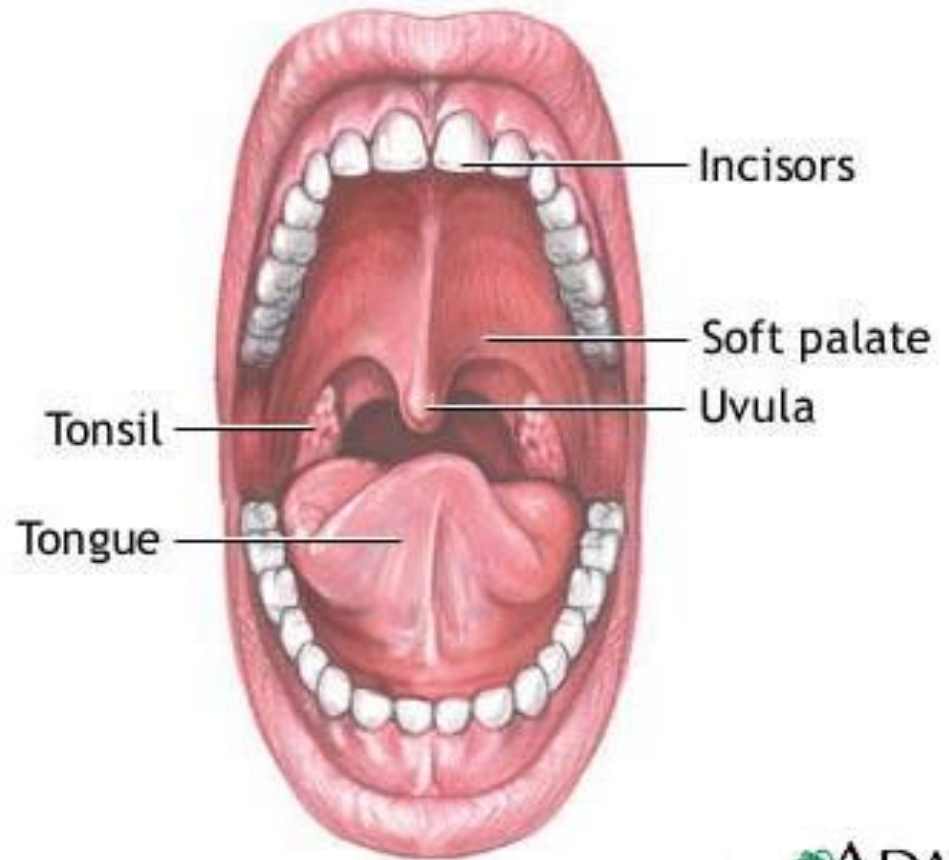
Helpers

- Gall Bladder
- Liver
- Pancreas



Mouth

- Where **food enters** the digestive system
- **Mechanical digestion** (teeth)
- **Chemical digestion** (enzymes in saliva)



Check For Understanding

Which of the following is NOT a function of the mouth?

- A. It is where food enters the digestive system.
- B. It moves food to the large intestine.
- C. It breaks down food mechanically.
- D. It breaks down food chemically.

Check For Understanding

Which of the following is NOT a function of the mouth?

A. It is where food enters the digestive system.

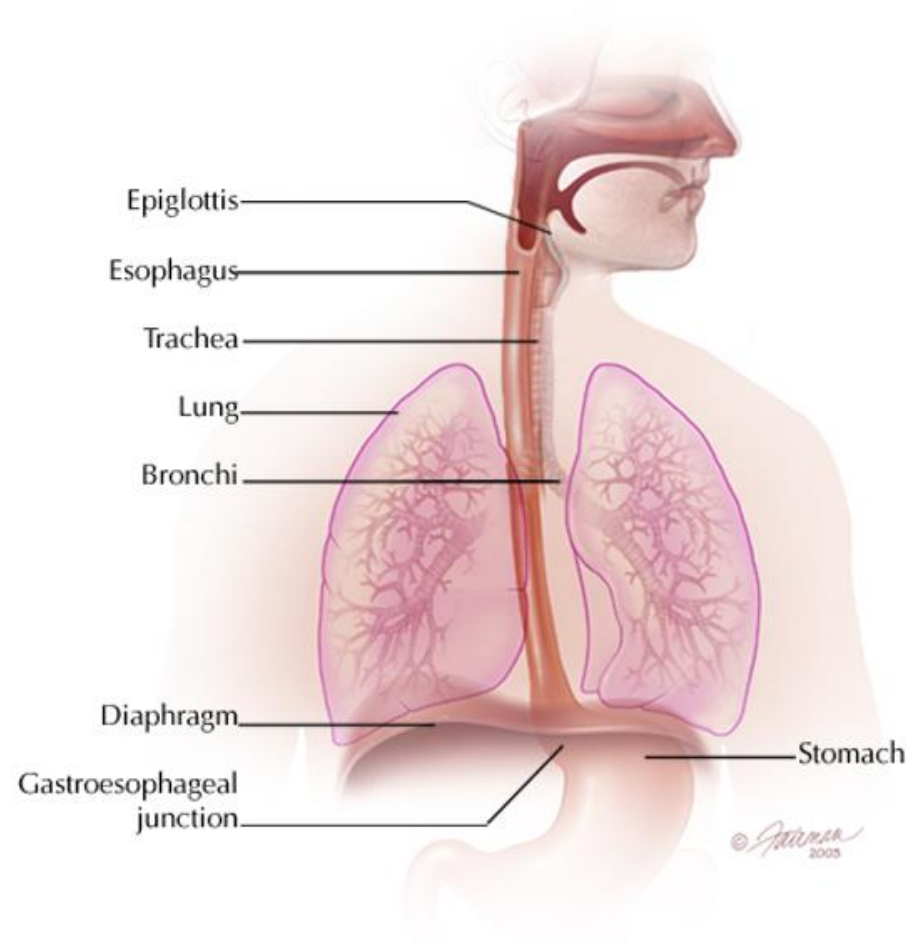
B. It moves food to the large intestine.

C. It breaks down food mechanically.

D. It breaks down food chemically.

Esophagus

- Tube that connects mouth and stomach
- Squeezes food from mouth to stomach with smooth muscle contractions



Check For Understanding

Which statement about the esophagus is true?

A. It moves food using muscle contractions.

B. It moves air down to the lungs.

C. It breaks food down mechanically.

D. It moves food from the stomach to the intestines.

Check For Understanding

Which statement about the esophagus is true?

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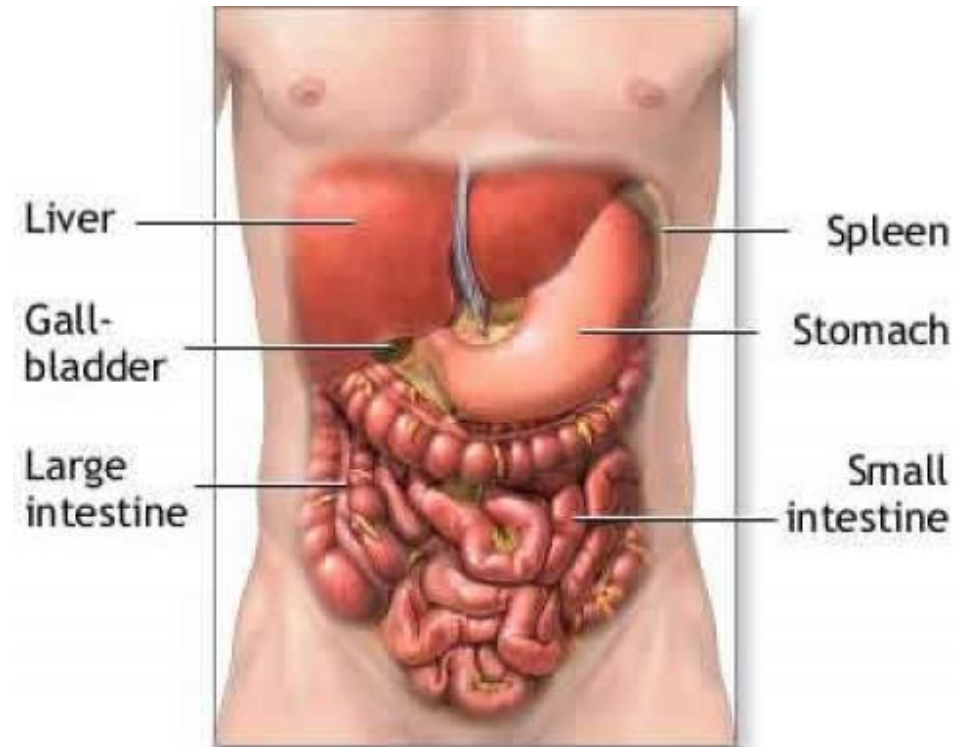
B. It moves air down to the lungs.

C. It breaks food down mechanically.

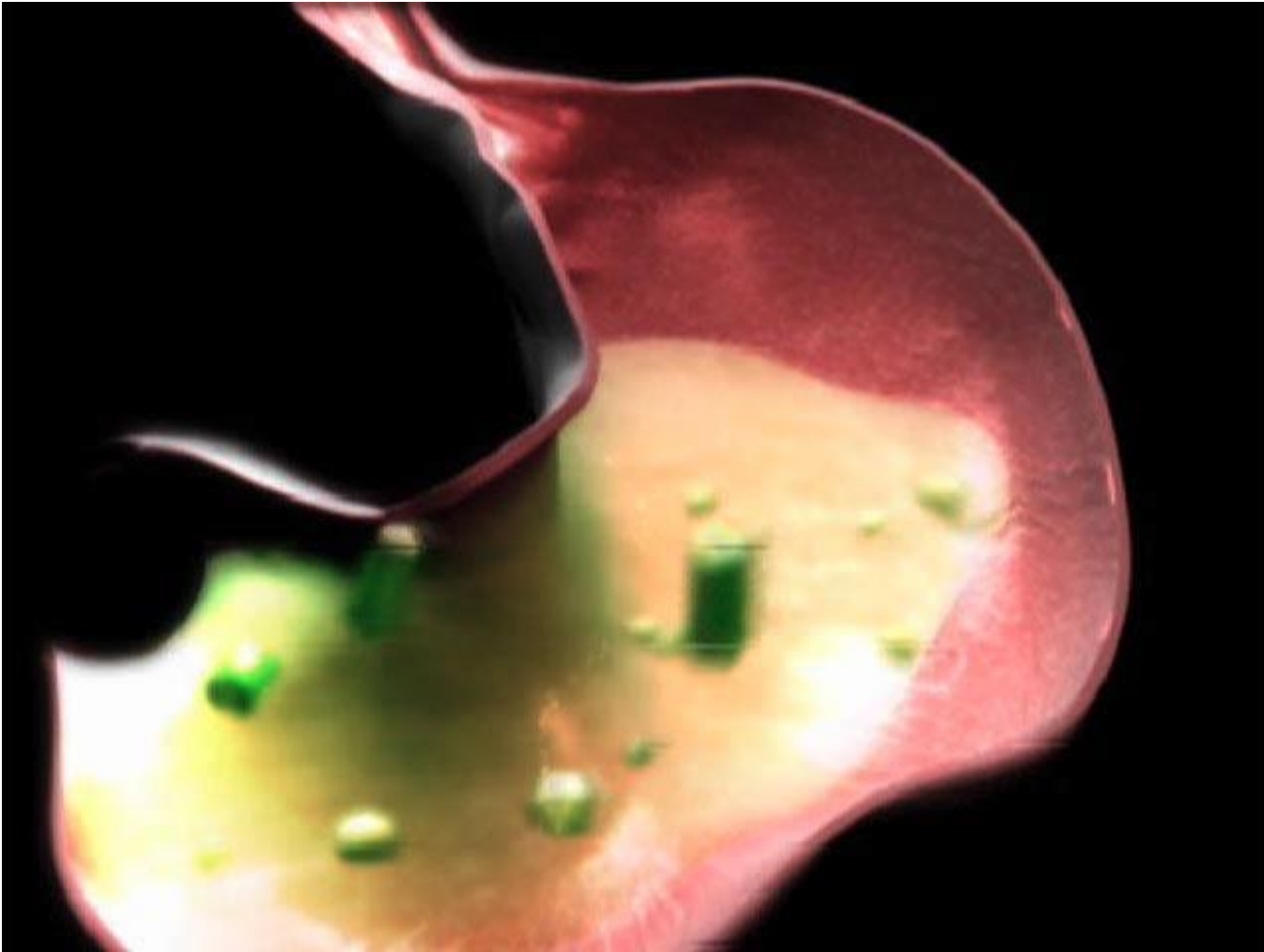
D. It moves food from the stomach to the intestines.

Stomach

- **Stretchy** bag that holds your food after eating and **continues** digestion
- **Mechanical digestion** (**mashing** due to contractions of **smooth** muscle tissue)
- **Chemical digestion** (**acids** from secretions)
- Turns food into **chyme**: semifluid mass of **partially** digested food



Chyme



Check For Understanding

Which is NOT true about the stomach?

- A. It breaks down food physically with muscle contractions.
- B. It uses acids to break food down chemically.
- C. It turns food into chyme.
- D. It is where babies grow.

Check For Understanding

Which is NOT true about the stomach?

A. It breaks down food physically with muscle contractions.

B. It uses acids to break food down chemically.

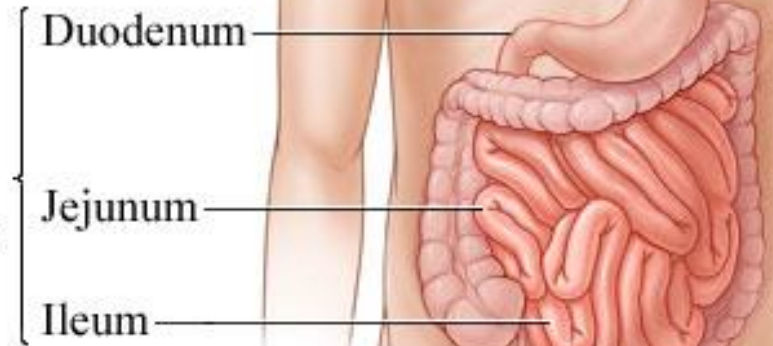
C. It turns food into chyme.

D. It is where babies grow.

Small Intestine

- Connects stomach and large intestine
- ~20 ft. long
- Food stays here for 4-8 hours

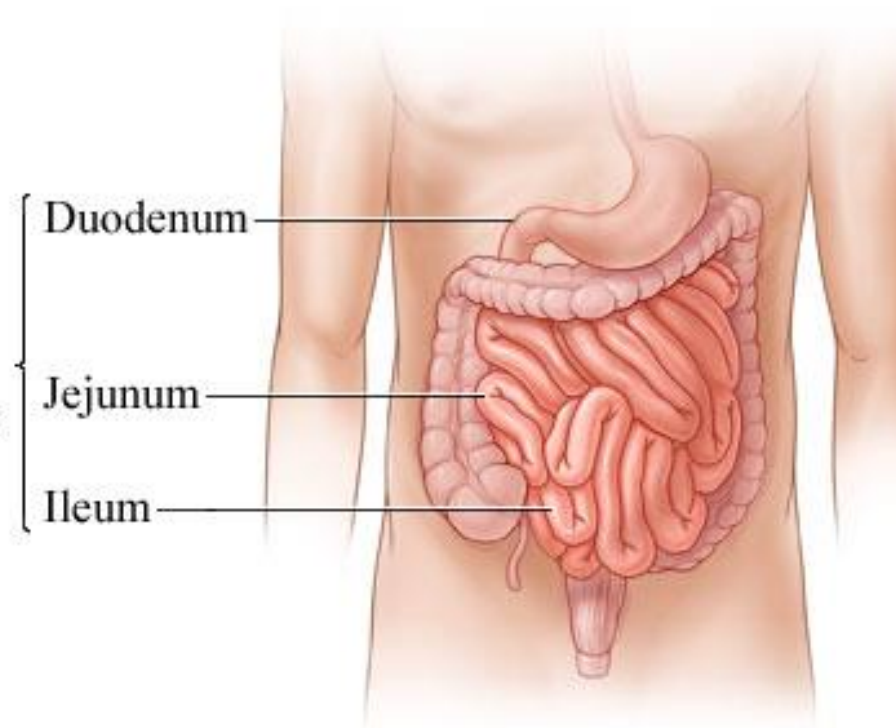
Small intestine



Small Intestine

- **chemical digestion**
finishes in small intestine
- **Absorbs nutrients** from food and sends them into the bloodstream
- Circulatory system will carry nutrients to all your cells

Small
intestine



Check For Understanding

What is the main function of the small intestine?

A. It is where food enters the digestive system.

B. It absorbs nutrients from food.

C. It kills bacteria.

D. It prepares food to exit the body.

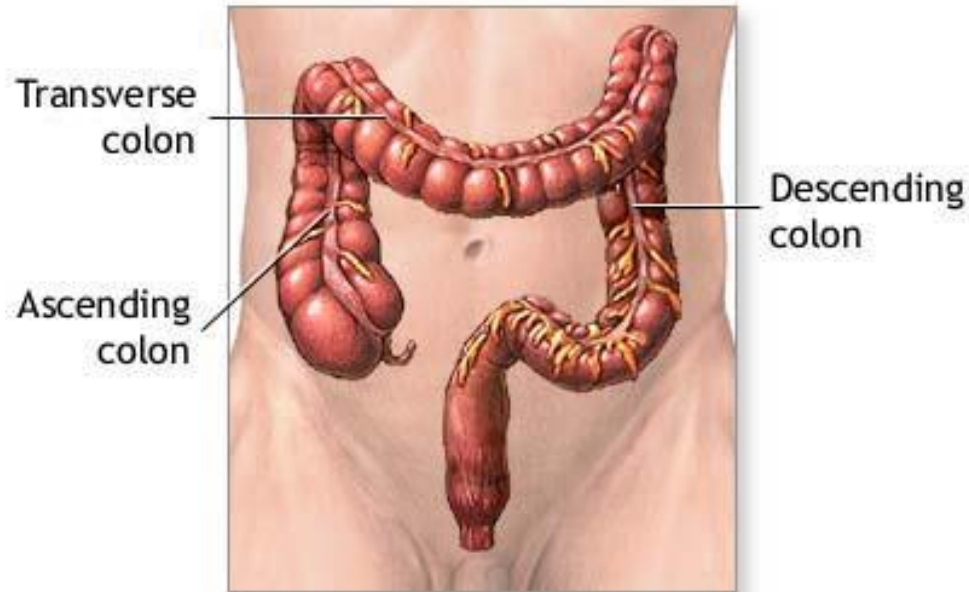
Check For Understanding

What is the main function of the small intestine?

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- B. It absorbs nutrients from food.
- C. It kills bacteria.
- D. It prepares food to exit the body.

Large Intestine

- **Absorbs excess liquid** from undigested food
- **Compacts** indigestible food into **waste**



Check For Understanding

Which is a function of the large intestine?

A. It absorbs nutrients from food and puts them into the bloodstream

B. It takes nutrients to all the cells of your body

C. It breaks down food chemically

D. It absorbs extra liquid from food your body could not digest

Check For Understanding

Which is a function of the large intestine?

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D. It absorbs extra liquid from food your body could not digest

Remember: You digest MESSiLy

- **M** outh
- **E** sophagus
- **S** tomach
- **S** mall intestine
- **L** arge intestine

Check For Understanding

Which organ is *not* functioning properly if an individual is unable to compact waste or reabsorb liquid from undigested food?

A.stomach

B.esophagus

C.small intestine

D.large intestine

Check For Understanding

Which organ is *not* functioning properly if an individual is unable to compact waste or reabsorb liquid from undigested food?

A.stomach

B.esophagus

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D.large intestine

Check For Understanding

Which organ is *not* functioning properly if an individual is unable to absorb nutrients from food?

A.stomach

B.mouth

C.small intestine

D.large intestine

Check For Understanding

Which organ is *not* functioning properly if an individual is unable to absorb nutrients from food?

A.stomach

B.mouth

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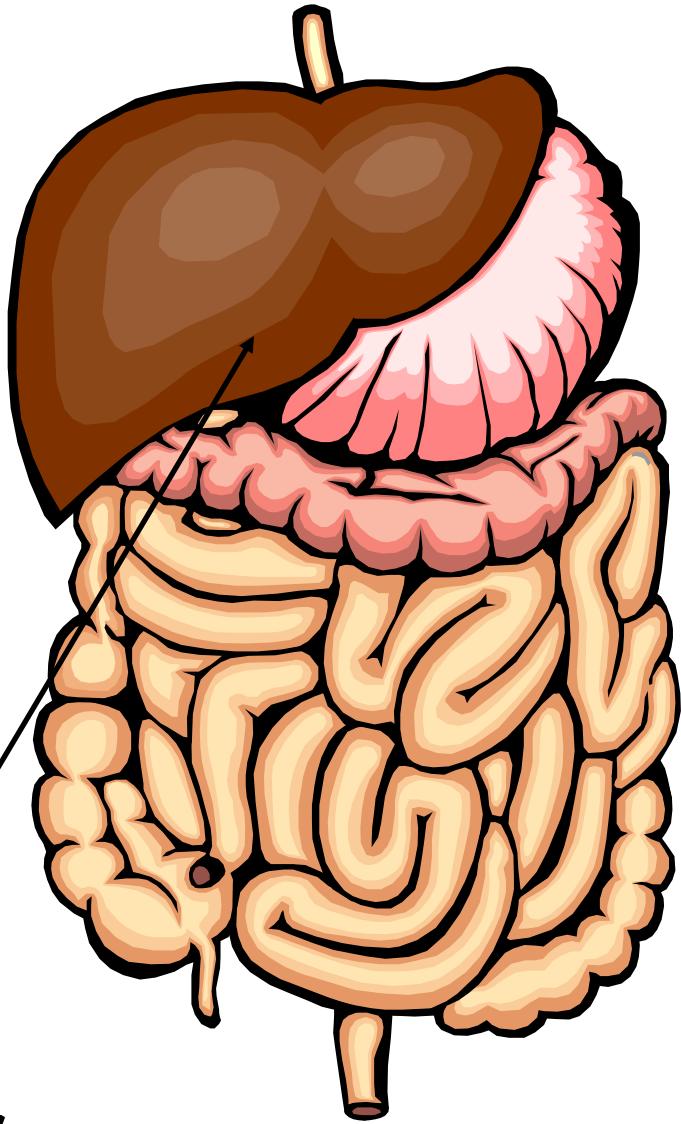
D.large intestine

Digestive Helpers

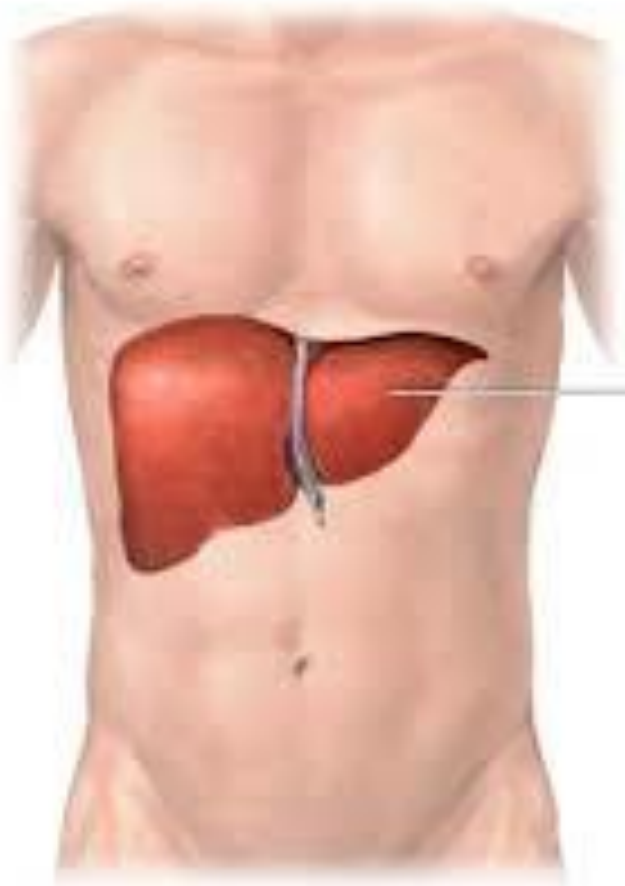
- Food does **NOT** pass through these organs

What is the function of the Liver

- Factory for bile – stomach acid that **BREAKS DOWN** fats
- Largest organ INSIDE the body
- Stores sugars and vitamins
- Filters out and breaks down harmful **SUBSTANCES** and chemicals



Liver

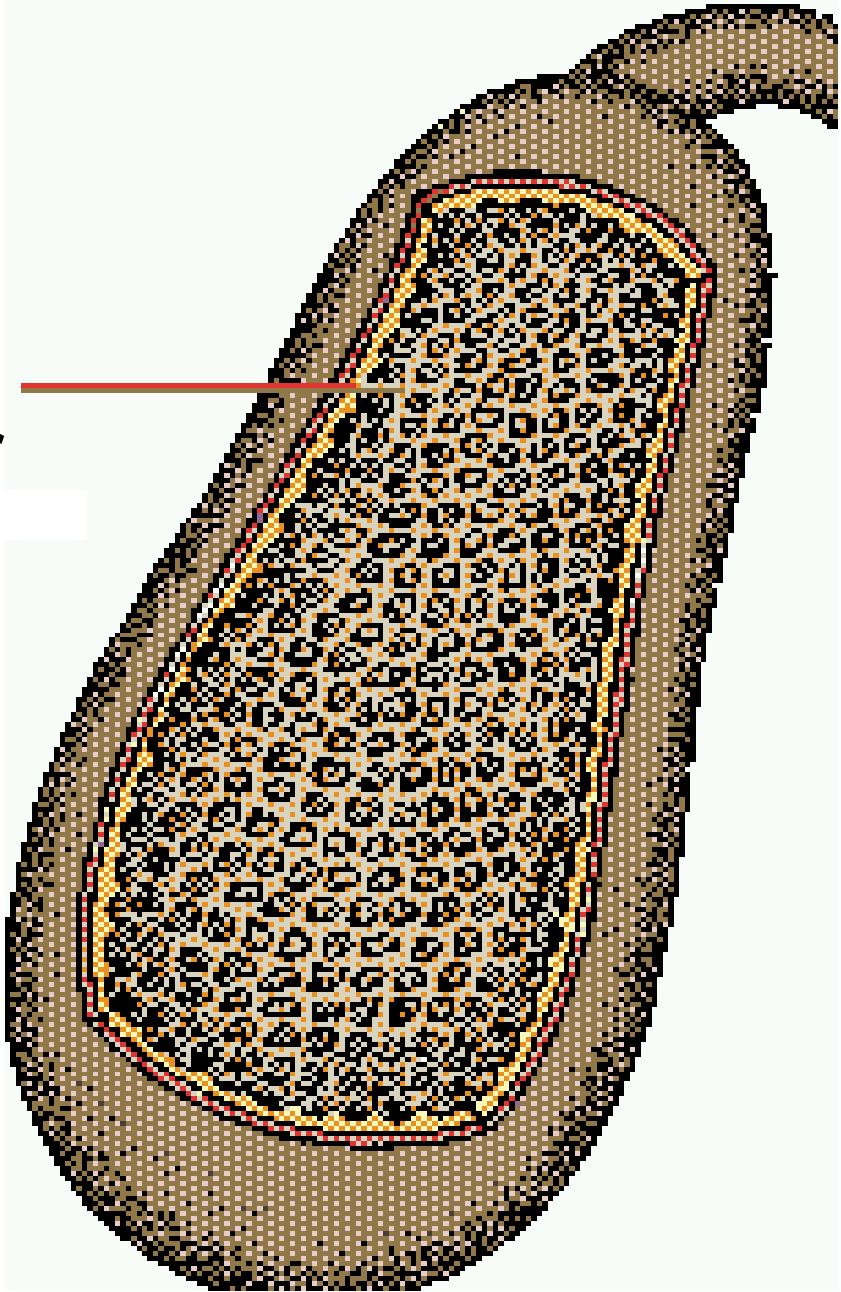


Liver

What does the Gall Bladder do?

- Stores **bile** (which helps your body break down and use fats)
- Located **under** your liver
- Shaped like a **pear**

Gall
Bladder



What is the function of the Pancreas?

- Produces insulin to break down sugars
- Helps regulate blood sugar

