

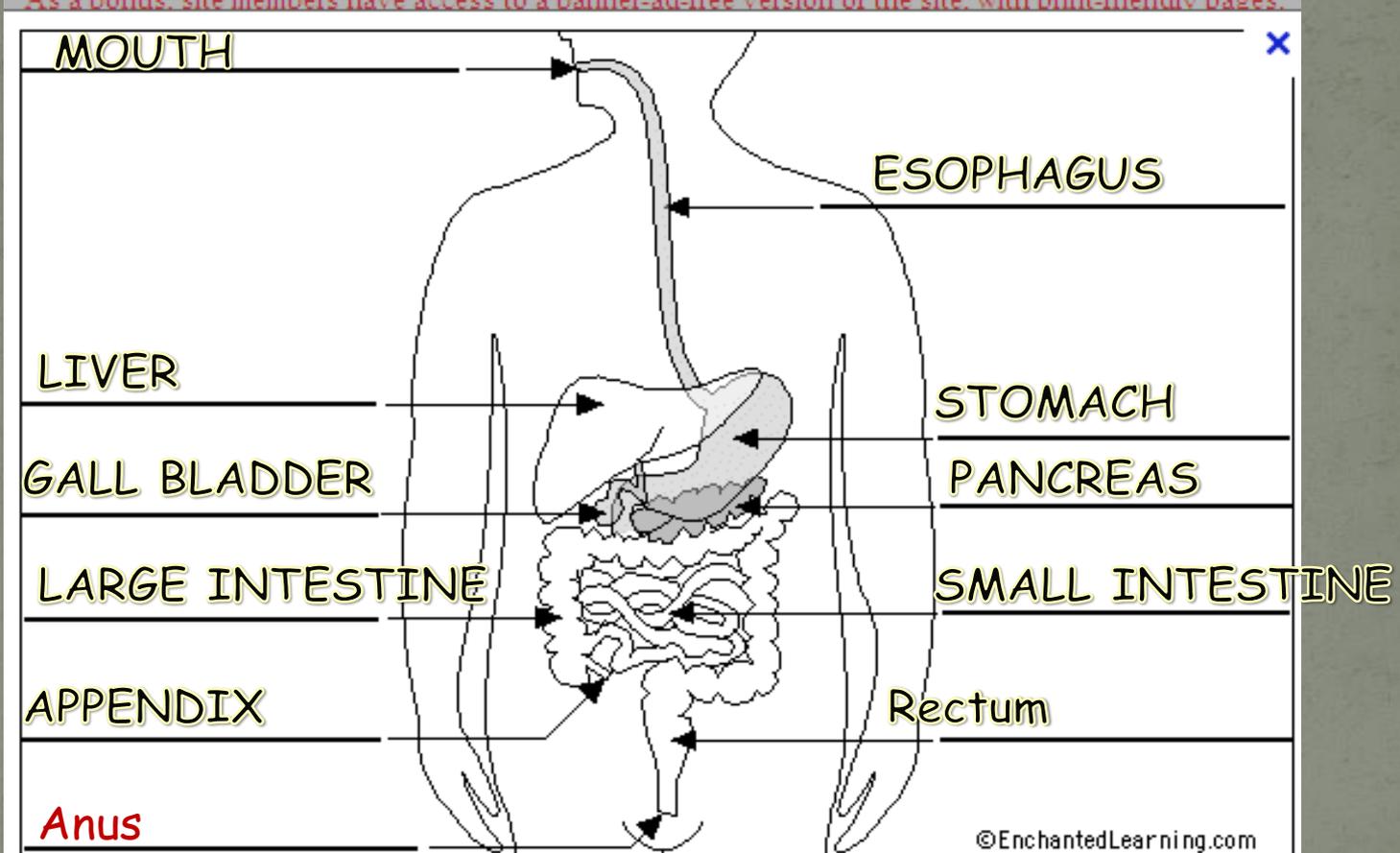
The Digestive System

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Objective 59: I can describe the parts and functions of the digestive system.

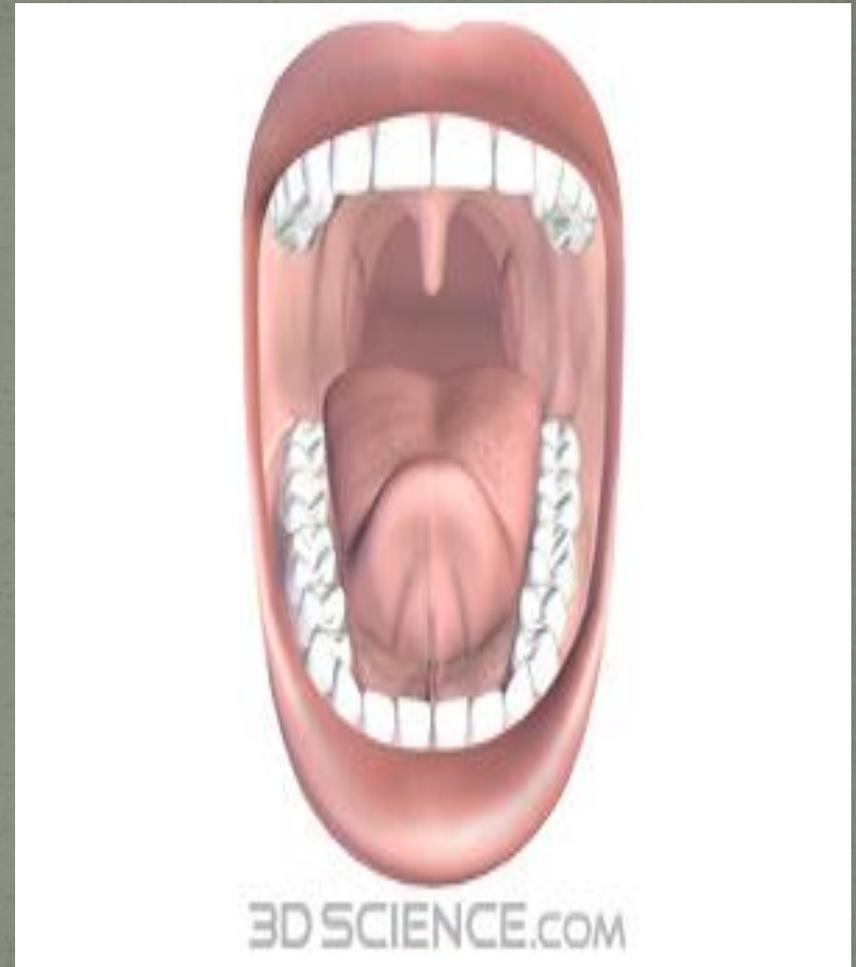
- Digestive system: breaks down food and provides nutrients for all of the cells in our bodies.

Labeling =)



Mouth

- **Teeth break food down** mechanically by chewing – they grind and crush food into smaller pieces.



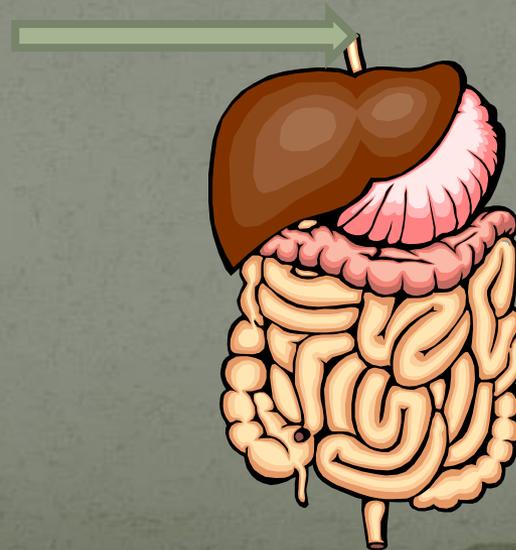
Salivary Glands

- Secretes **amylase** which breaks down starches and sugars in your mouth before you swallow.

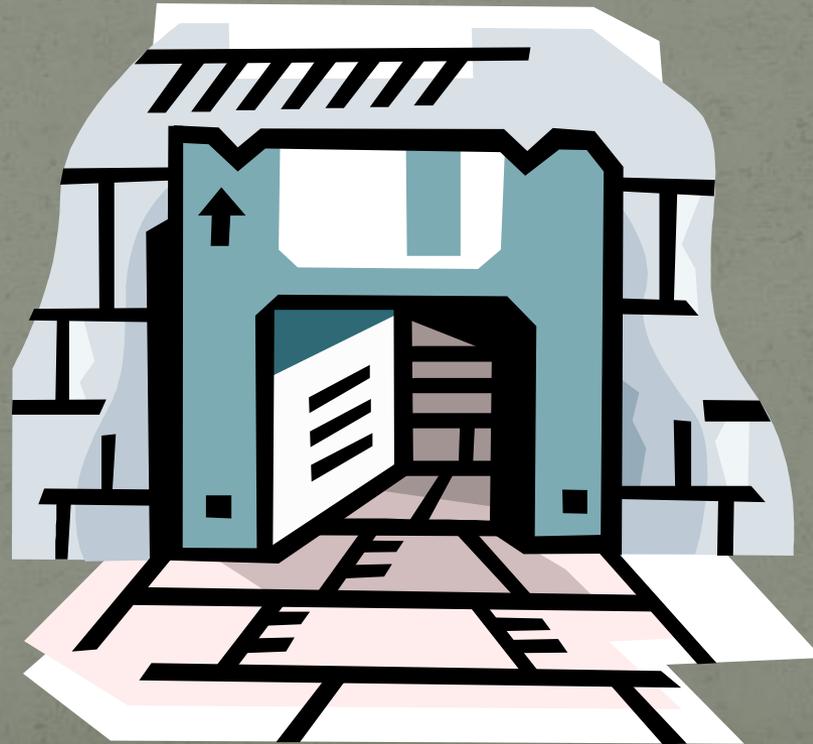


Esophagus

- the tube that connects your **mouth** and your **stomach**

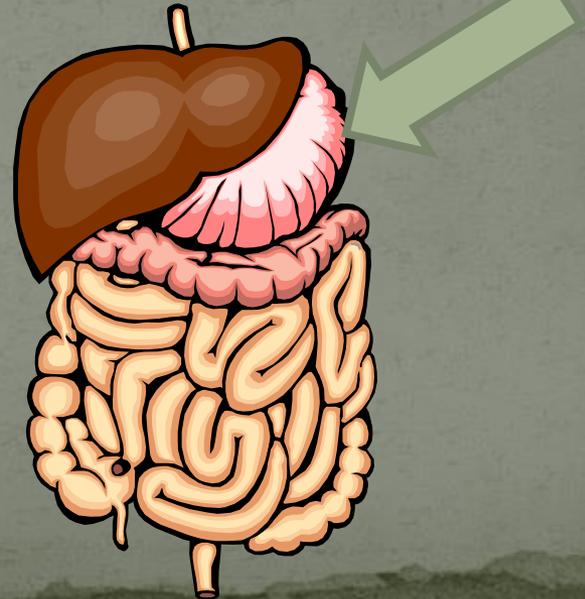


- You have a trap door called the **epiglottis** to cover your windpipe when you swallow.



Stomach

- A **stretchy bag** that holds your food after you eat.
- Helps to break food into smaller pieces by **churning** so your body can use it for **energy** and nutrition



- Your stomach **mashes** your food the way a baker kneads dough for bread.

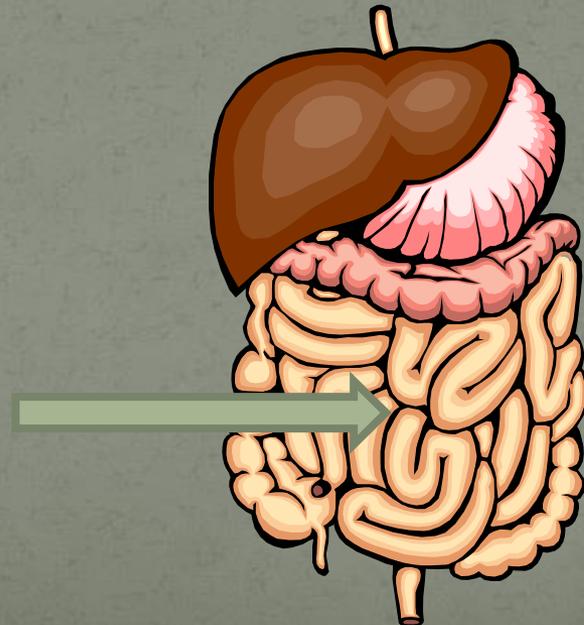


- Your stomach **stretches** when you eat like a balloon being filled with air



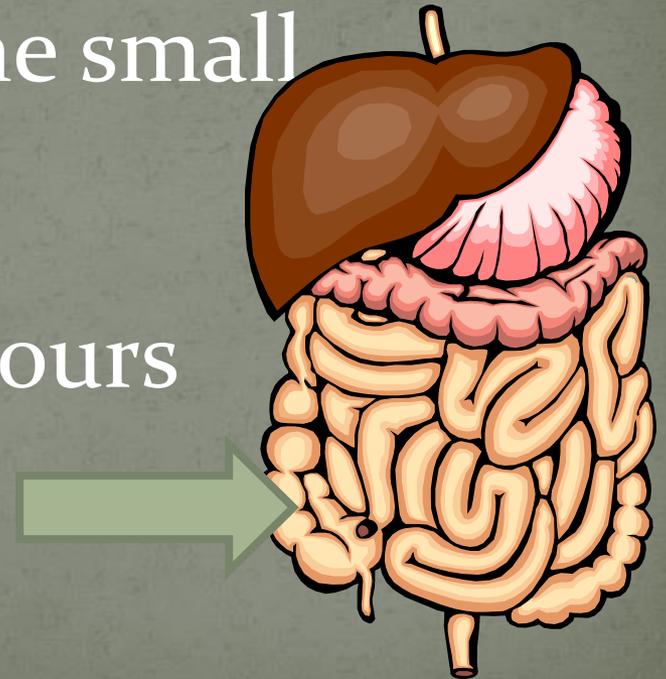
Small Intestine

- Tube that is **20** feet long.
- Continues to digest food
- Food stays in your small intestine for **4 to 8 hours**



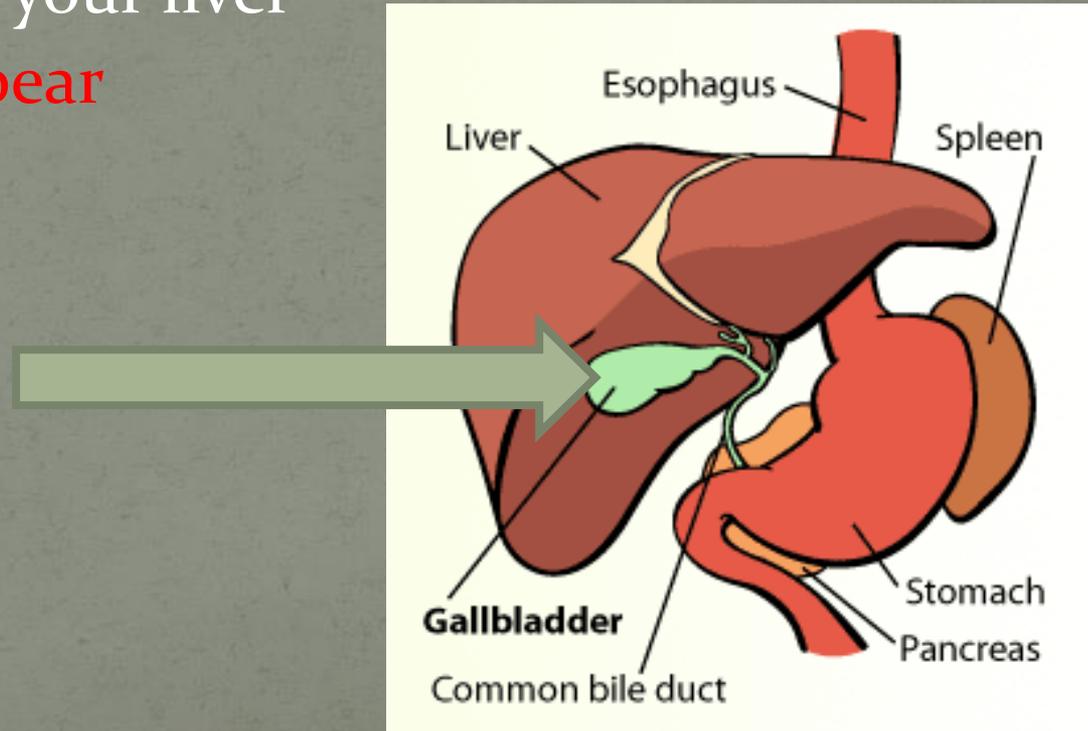
Large Intestine

- Tube that is **5** feet long
- Gets waste from **small intestine**
- It is called the LARGE intestine because it is **wider** than the small intestine.
- Waste stays for **10 to 12** hours



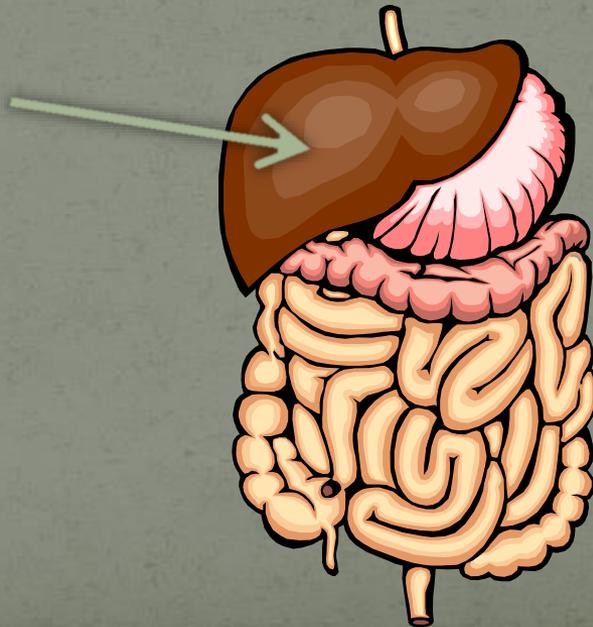
Gall Bladder

- Storage tank for **bile** (a greenish-yellow liquid) that helps your body break down and use fats
- Located under your liver
- Shaped like a **pear**



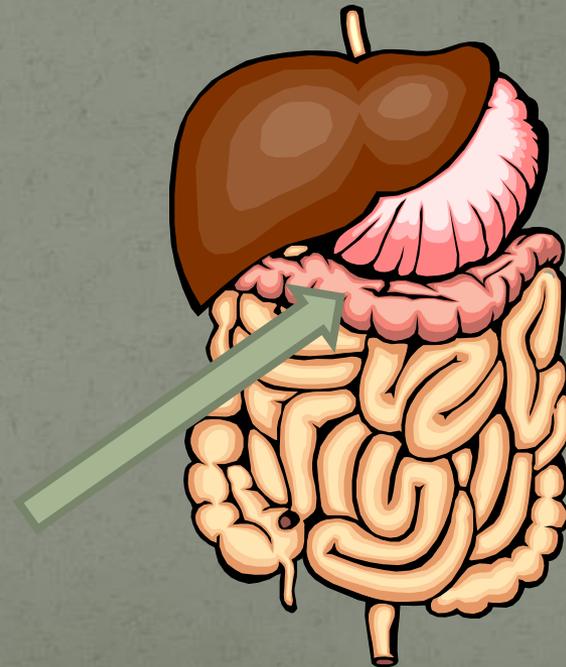
Liver

- Factory for **antibodies** and **bile**
- Stores **vitamins and sugars** until your body needs them



Pancreas

- Helps you digest food by **breaking down sugars**



Rectum

- A **storage area for feces** before they are removed from the body



Interesting Facts

- Food is in your digestive system for about **24** hours



Obj 5: I can describe how the digestive system works together with other body systems.

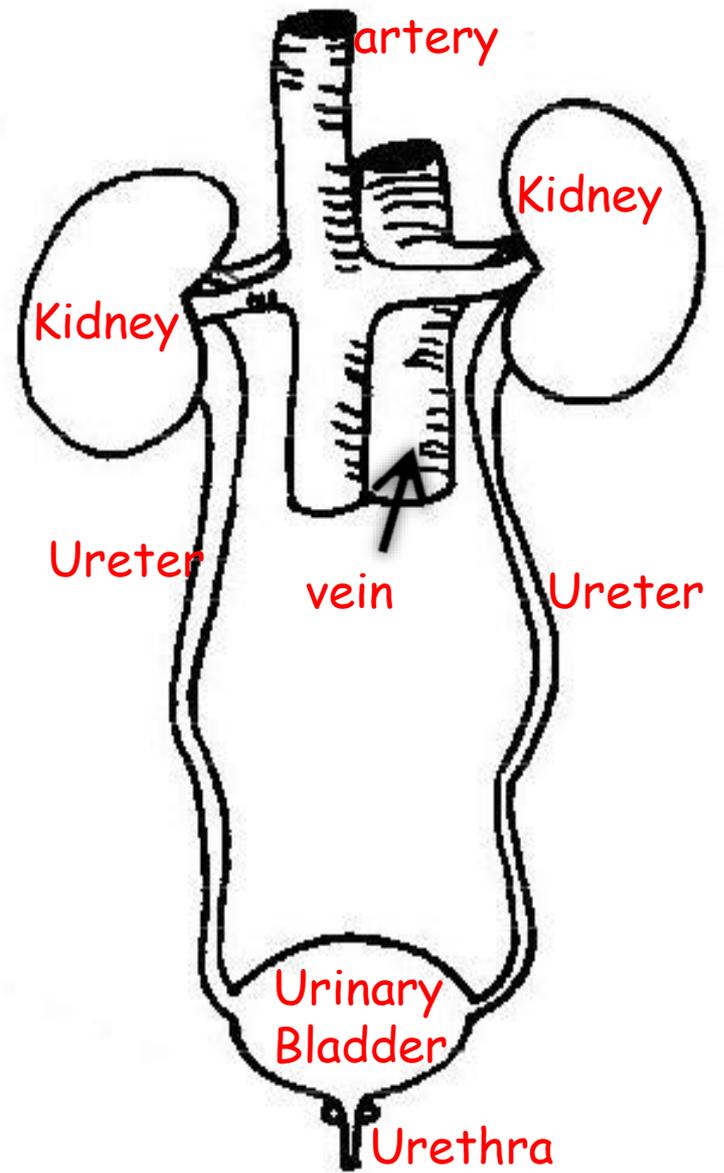
- The **digestive system** provides every system in the body with the **nutrients** it needs..
- The **circulatory system** transports the **nutrients** from the **digestive system** to all other systems in the body

The Excretory System



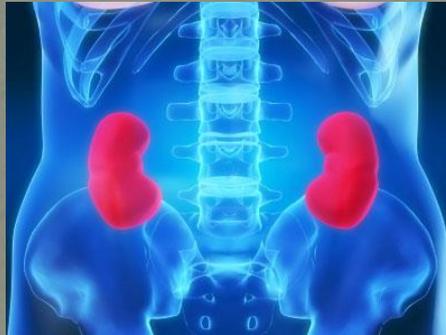
Obj 61: I can describe the parts and function of the excretory system.

- Excretory system: is the system in the body that collects **wastes produced by cells** and removes them from body.
- The function of the Excretory system is to eliminate **urea, water**, and other wastes from the body.
- Excretion maintains **homeostasis** which means keeping your body's internal environment (temperature, hydration, energy) **stable** and **free of harmful chemicals**
 - The excretory system is SEPARATE from the digestive system.
 - **Urine** = excretory system – waste from cells
 - **Feces** = **digestive system** – waste from food you eat

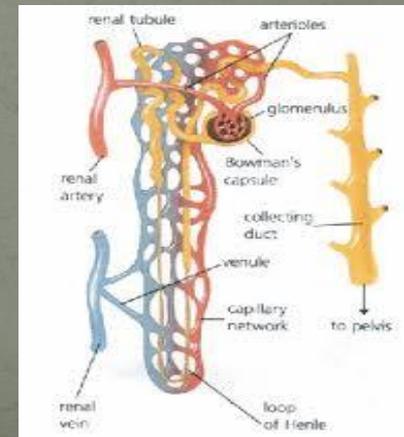


Parts of the excretory system:

Kidneys- remove urea and other wastes from the blood.



Nephron- tiny filtering factories that remove wastes from blood and produce urine. It is made up of tubes and capillaries.



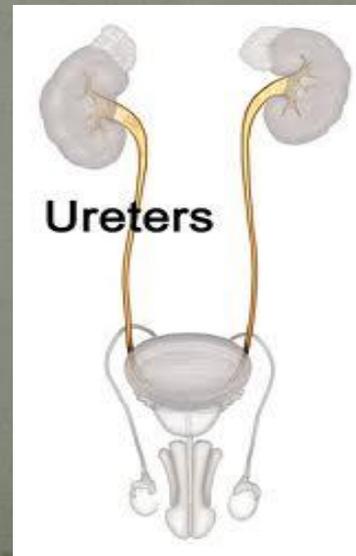
Ureters- Urine flows from the kidneys into these two long narrow tubes.

Urinary bladder- A saclike muscular organ that stores urine.

Urethra- Urine leaves the body through a small tube.

Urine- Liquid that is produced in the kidneys and stored in the bladder.

Urea- A chemical that contains nitrogen waste and is filtered by the kidneys.



Liver- Breaks down proteins to produce urea, antibodies, and bile (used in digestion). It stores vitamins and sugar until needed by the body. Used in **digestive and excretory system**.

Excretion- The removal process of wastes from the organs.

Respiration- The process in which oxygen and glucose undergo a complex series of chemical reaction inside cells. The waste product of respiration is carbon dioxide.

Skin- It is our body's largest organ – part of the **integumentary system and the excretory system**. The skin excretes perspiration to help our bodies maintain homeostasis

Perspiration- Excreted by the skin containing water, salt, and urea.

Obj 62: I can describe how the excretory system works with other organ systems in the body

- The excretory system works with the circulatory system by removing waste from the blood.
- The excretory system works with the integumentary system (your skin, hair, nails) to maintain homeostasis