

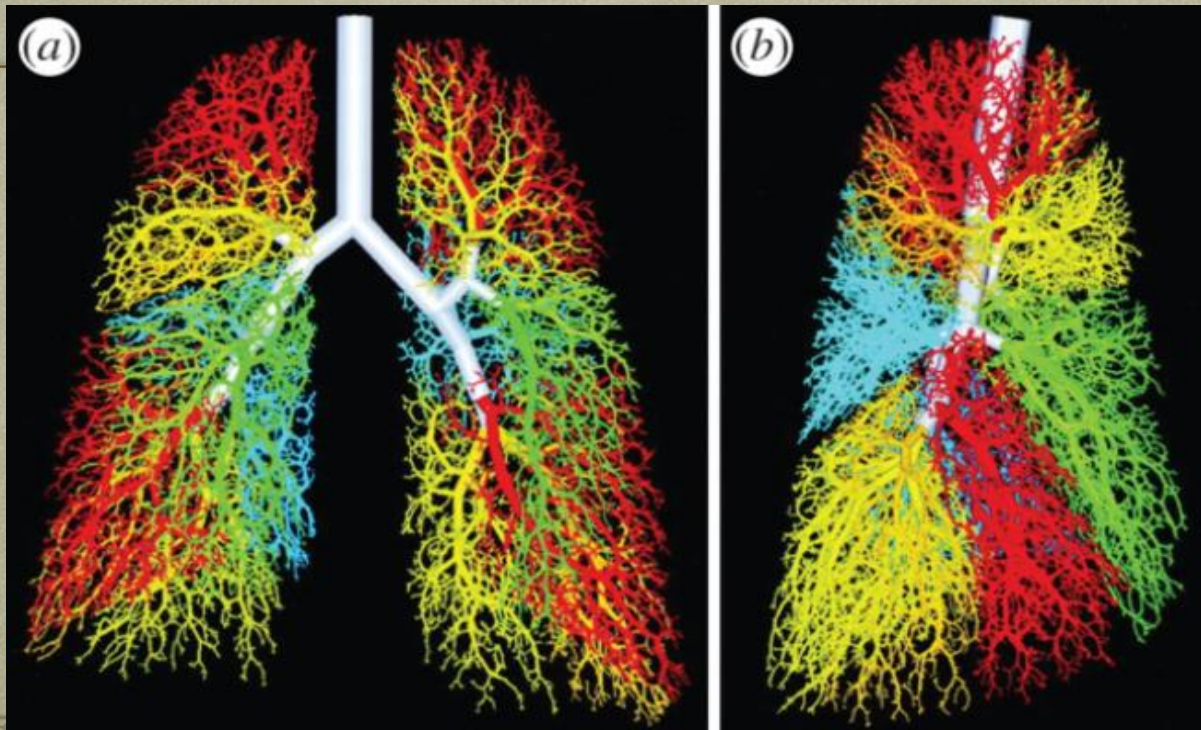
Chapter 7 : Human Body system

Lesson # 1: Transport and defense

Objective :

To observe how the human body is divided in different systems in order to defend us from any disease

To which human system does this organ belong?
Why do the lungs need these parts?



Chapter 7 : Human Body system

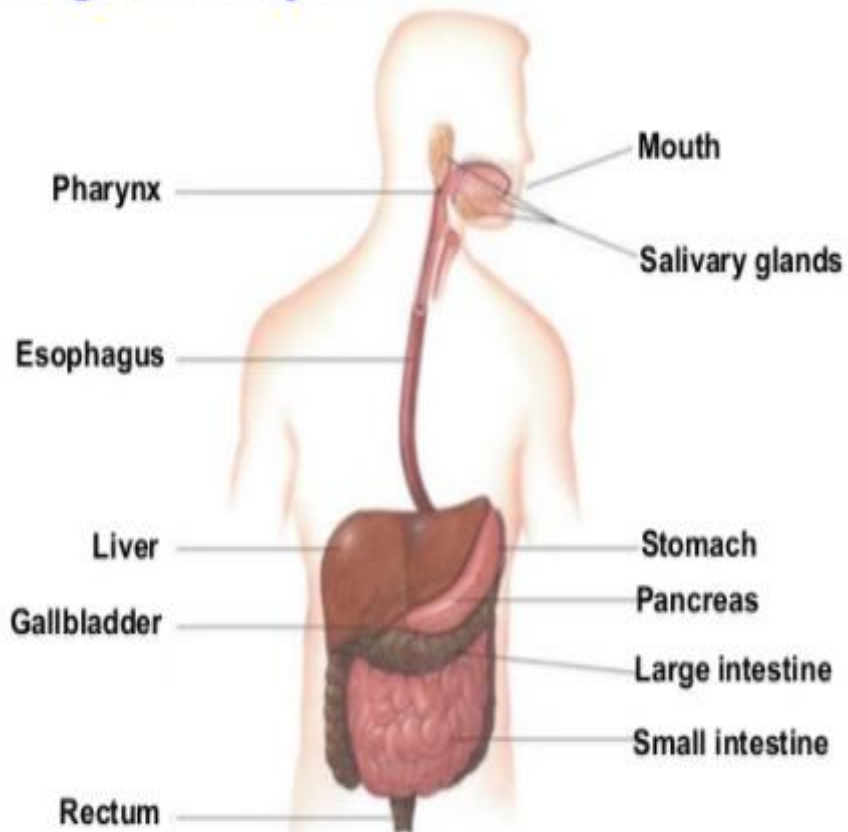
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Lesson # 1: Transport

Digestive system is the process by which food is broken down

Digestion:

• The Digestive System



- ❧ 1. Food and water enter through the **mouth**
- ❧ 2. Salive helps break down food.
- ❧ 3. The **esopahgus** is a hollow tube by which, food, water and other liquids move . Connect the **mouth** and **stomach**
- ❧ 4. Flexible baglike organ that break down food is called **stomach**

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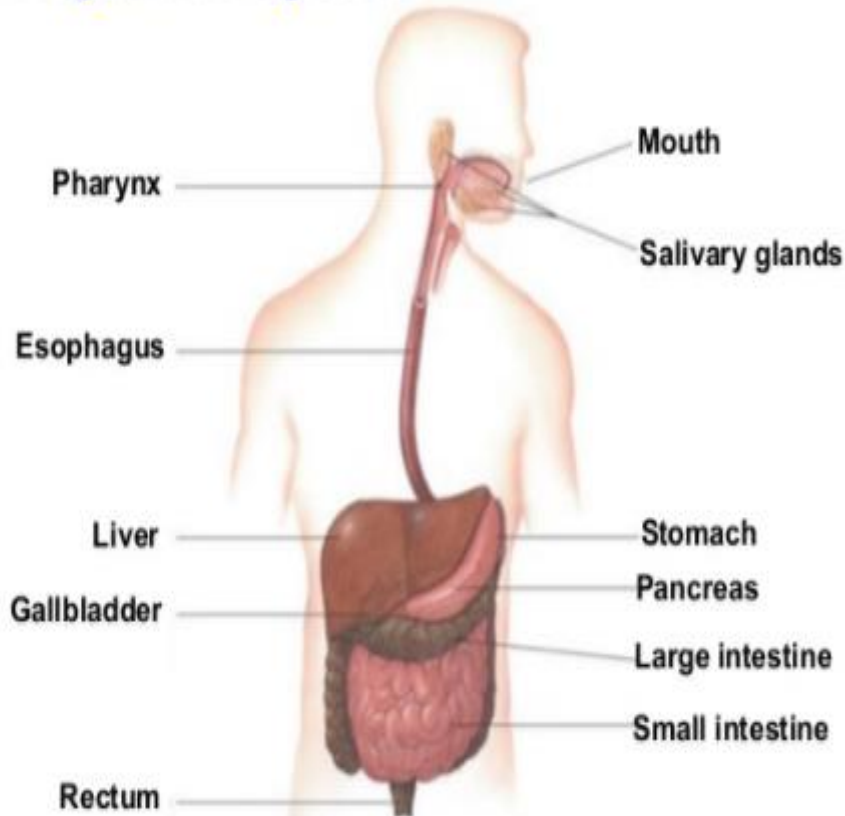
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Absorption:

• The Digestive System



- ❧ 1. The **small intestine** catch food from the **stomach**. Food gets like soupy mixture. It digest and absorb. Particles of food and water are absorbed by the blood.
- ❧ 2. **Liver** makes bile and the **pancreas** makes enzymes. Break down food even more. These helps digest faster through the small intestine.
- ❧ 3. The **small intestine** is large so food takes hours to move through it

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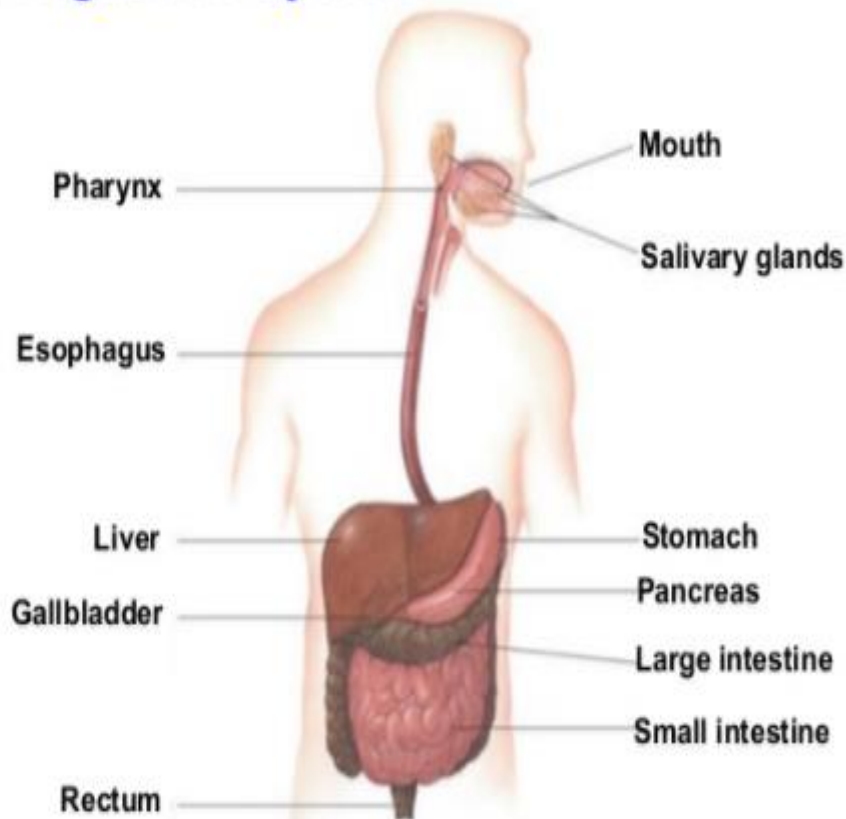
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Digestive system is the process by which food is broken down

Excretion:

• The Digestive System



1. The **large intestine** receives digested food that the **small intestine** did not absorb.

Fibers in vegetables and whole grain are not digested and leave the body through the **rectum**

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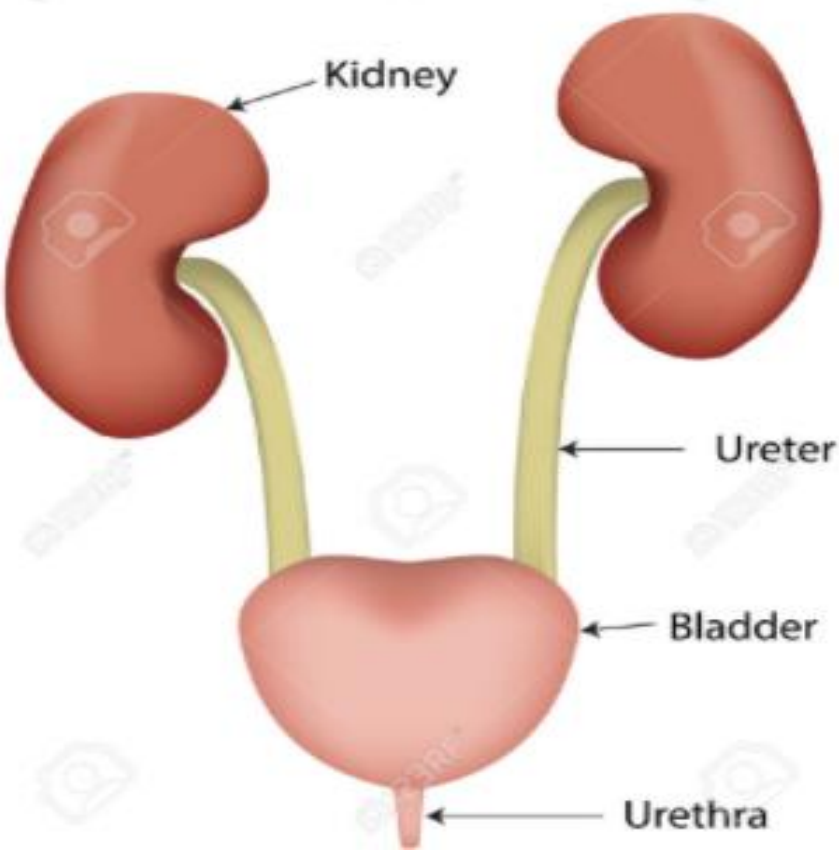
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Lesson # 1: Transport

Excretory system removes solid liquid and gas materials from the body.

The Urinary System



- 1. Organs involved in the excretory system: lungs, skin, liver, kidneys, bladder, and rectum
- Lungs: remove carbon Dioxide, skin removes water and salt
- Liver : remove waste from your blood
- Urea : is toxic if it stays in the body
- Kidneys: remove urea from the body by making urine

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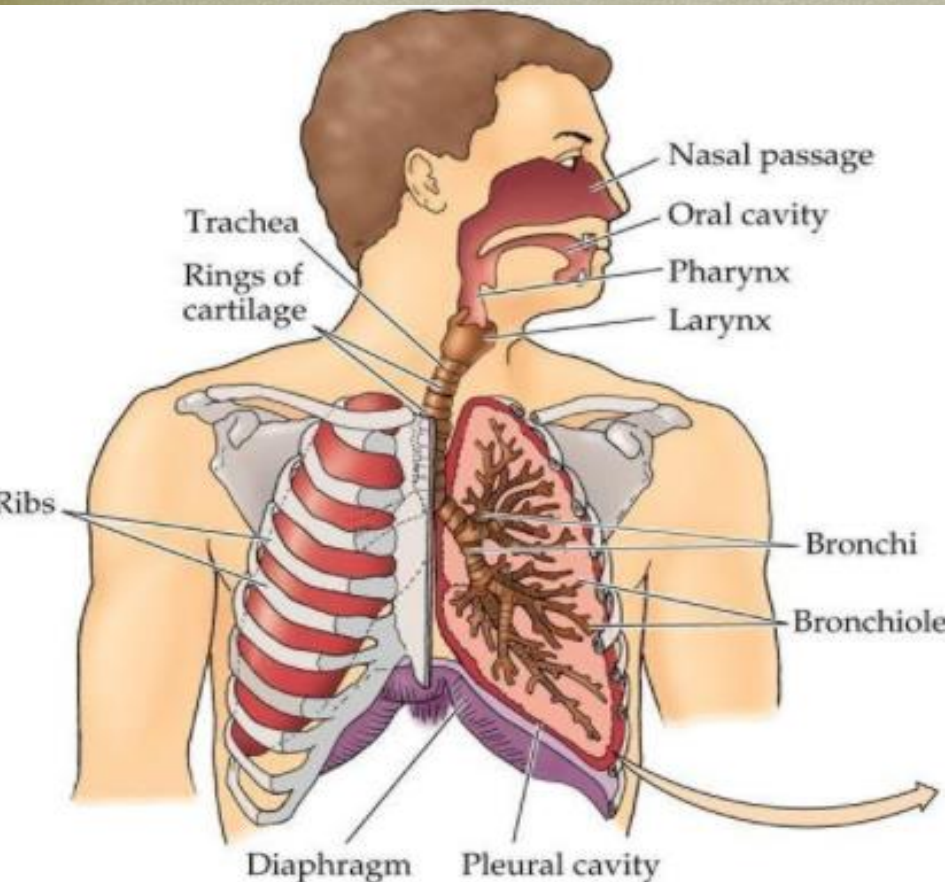
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Lesson # 1: Transport

Respiratory system: exchanges gases between the body and the environment, supply the body with oxygen, and they get rid of carbon dioxide

1. Organs that are involved: nose , mouth, pharynx, trachea, bronchi and lungs

2. Air pass through pharynx and then to the trachea

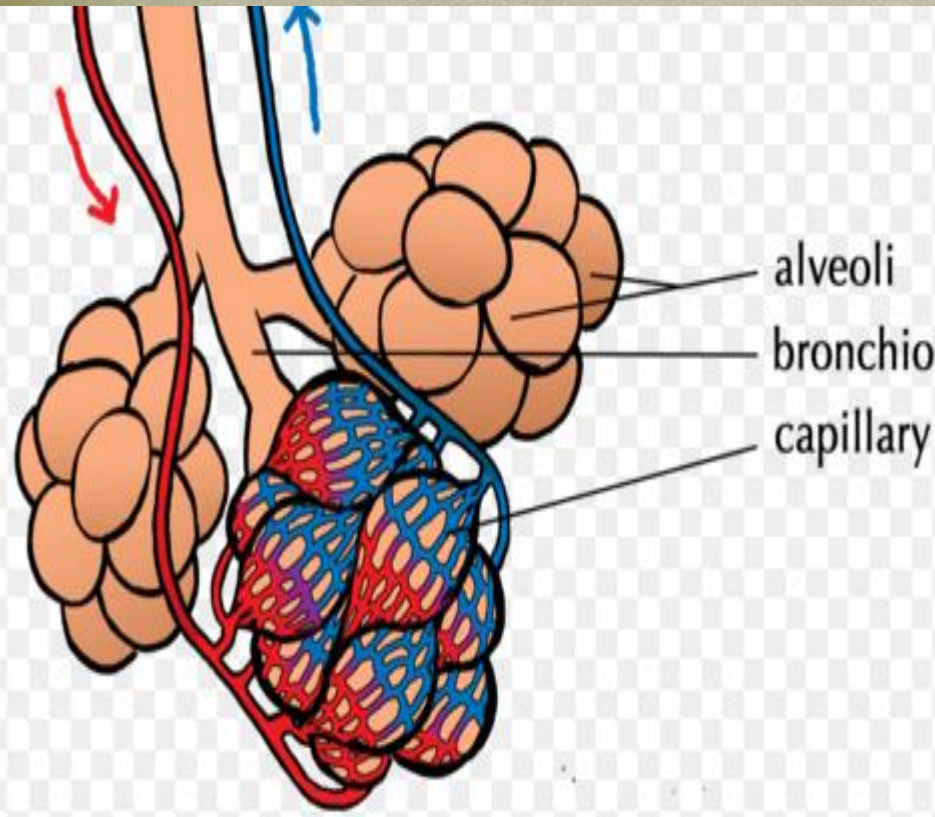


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Lesson # 1: Transport

Respiratory system: exchange gases between the body and the environment, supply the body with oxygen, and they get rid of carbon dioxide



1. The bronchi has many tiny cells called alveoli. These alveoli are surrounded by blood vessels called capillaries.
2. Capillaries take in oxygen from the alveoli and transport it to all parts of the body through the blood

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Lesson # 1: Transport

Circulatory system: It transport nutrients, gases, wastes ,and other substances through the body

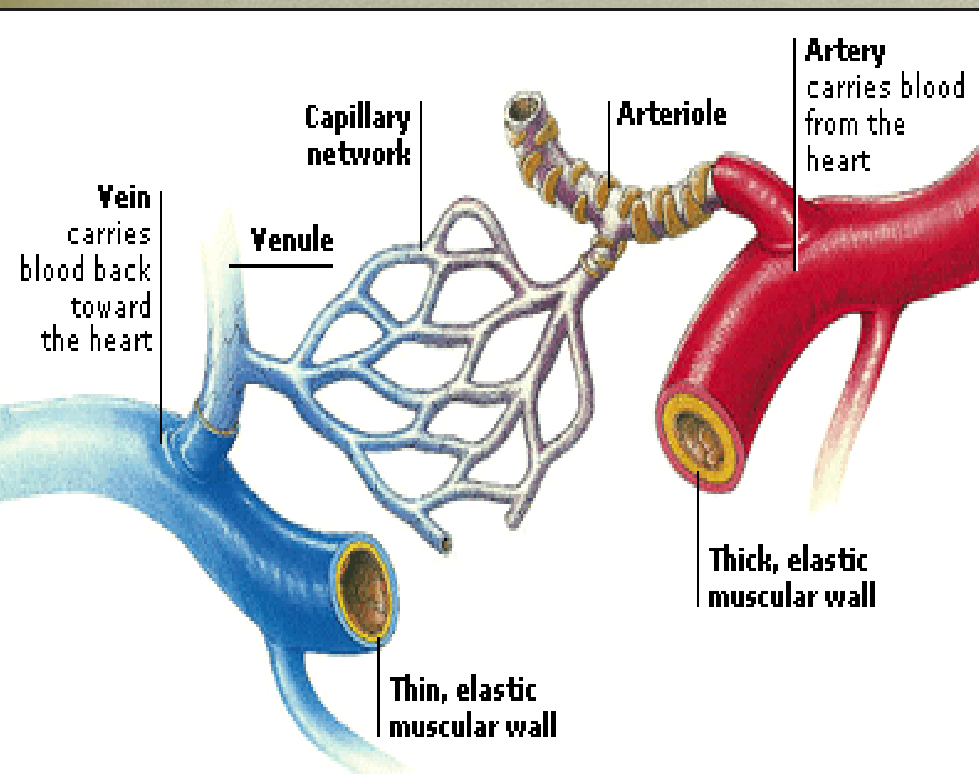
1- The heart is the principal organ of the circulatory system

2- Contractions pump blood out to the rest of your body . When your heart relax ,blood from the rest of your body enters the heart

3- Three principal blood vessels are: capillaries, veins and artery

4- Blood travels through the body in tiny tubes called vessels

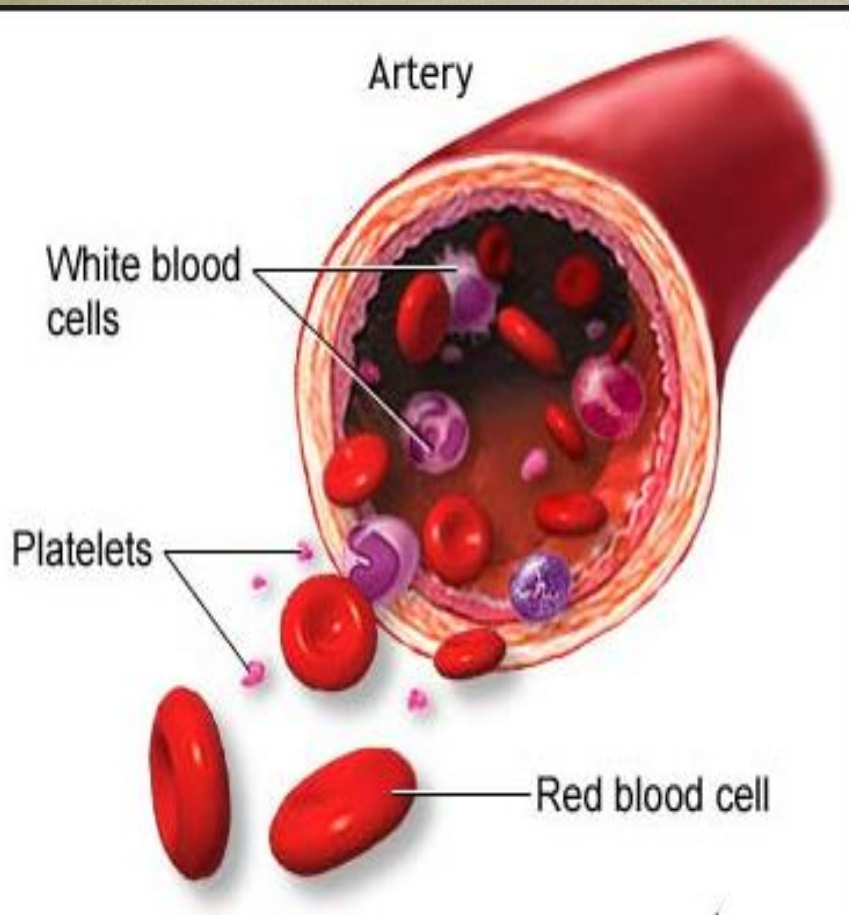
5- Vein carry blood back toward the heart and artery carries blood from the heart



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PARTS OF THE BLOOD:

- 1- Plasma: contains nutrients , water, and CO₂.
- 2- Red blood cells: carry oxygen
- 3- Platelets : help the body heal when you get cut.
- 4- White blood cells: help the body defend itself from toxins and diseases.