

T H E C I R C U L A T O R Y S Y S T E M



Parts of the Heart

- **Superior & Inferior Vena Cava:** Major veins of the body that return deoxygenated blood to the right atrium.
- **Right Atrium:** Receiving chamber at the top of the heart receiving deoxygenated blood from the body.
- **Left Atrium:** Receiving chamber at the top of the heart receiving oxygenated blood from the body.
- **Ventricles:** Thick muscular chambers of the heart located below each atria.
 - **Right:** Pumps blood to the lungs
 - **Left:** Pumps blood to the body
- **Pulmonary Artery:** The major artery carrying deoxygenated blood from the right ventricle to the lungs.
- **Pulmonary Vein:** The major vein carrying oxygenated blood from the lungs to the left ventricle.
- **Aorta:** The major artery carrying oxygenated blood from the left ventricle to the body.
- **Septum:** The muscular wall that separates the left and right sides of the heart.

Functions

- Delivers needed materials to cells
- Removes waste from cells
- Regulates body temperature
- Fights infections

Components

- Heart
- Blood Vessels: arteries, capillaries, veins

Blood Vessels

- **Artery:** Brings blood away from the heart.
 - Thickest
 - Withstands the most pressure
- **Vein:** Brings blood toward the heart.
 - Has valves to prevent blood from backing up.
- **Capillary:** Connect arteries to veins and allow gas exchange.
 - Thinnest
 - Lets materials pass through

Components of the Blood

Component	Function	Where is it made
Plasma	Liquid part	Water
Platelet	Stop bleeding	Bone marrow
Red Blood Cells	Carry Oxygen	Bone marrow
White Blood Cells	Protection	Bone marrow

Circulatory System Study Notes

JE Gale



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