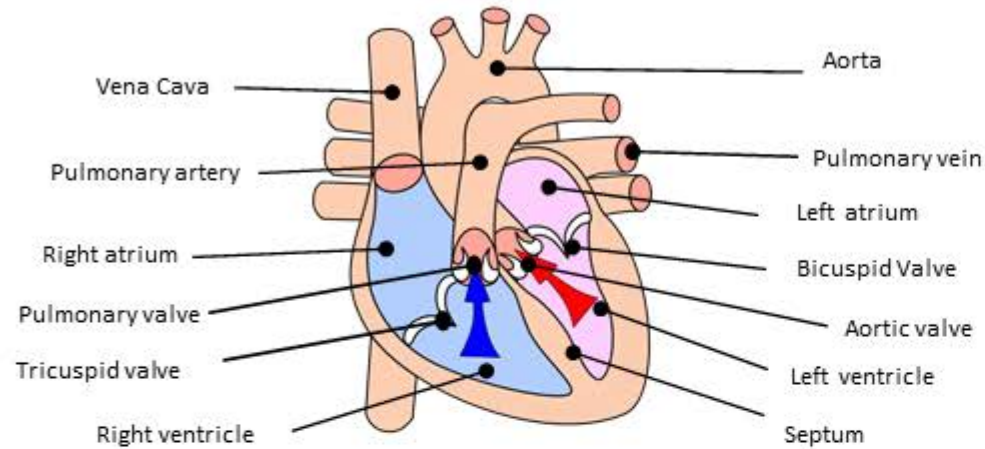
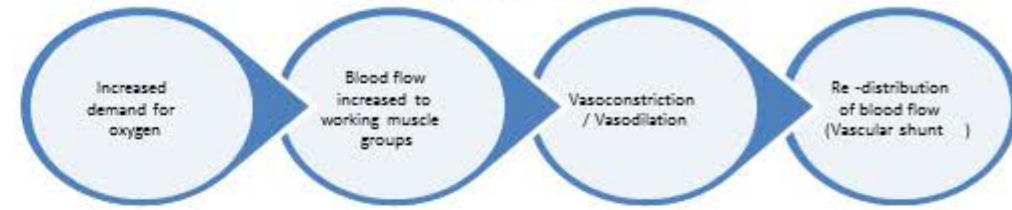




Deoxygenated blood = **BLUE** (Right side) Oxygenated = **RED** (Left side)



Vascular Shunting



Vasoconstriction –NARROWING

Vasodilation -EXPANDING



Function of the cardiovascular system

1. Transport of oxygen, carbon dioxide and nutrients
2. Clotting of open wounds
3. Regulation of body temperature



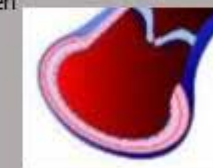
Arteries

1. Away from the heart
2. Oxygenated blood (except pulmonary artery)
3. Thick/elastic walls
4. High pressure



Veins

1. Back to the heart
2. Deoxygenated blood (except pulmonary vein)
3. Thin walls + larger lumen
4. Lower pressure
5. Valves



Capillaries

1. In the tissue
2. Site of gaseous exchange
3. Very thin walls



Components of blood-Red blood cells

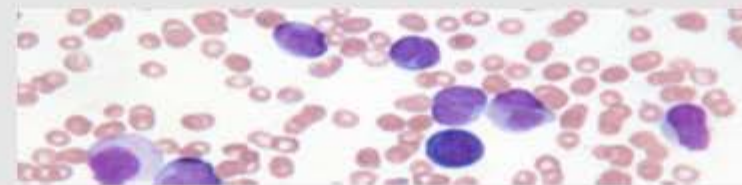
Carry oxygen from the lungs to the working muscles + Removes CO₂.

Haemoglobin binds the oxygen.



White blood cells

Are part of the immune system and **fight disease** and infection.



Platelets & Plasma

Platelets **clot blood** and form a scab around the site of injury. Plasma is the **liquid/fluid** part of blood that allows it to flow.

