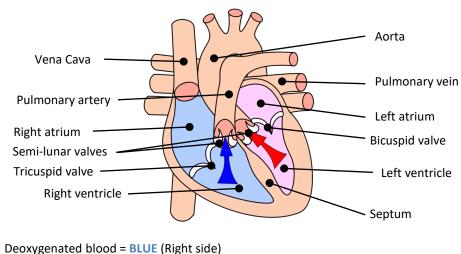
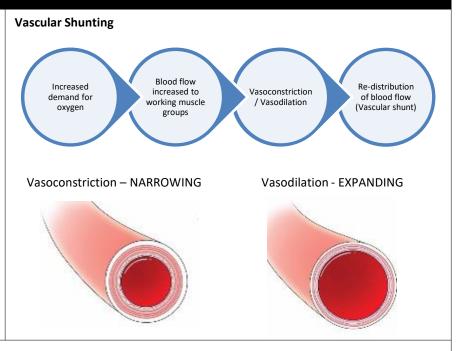
GCSE Physical Education – The structure and functions of the cardiovascular system







Function of the cardiovascular system

- Transport of oxygen, carbon dioxide and nutrients
- Clotting of open wounds

Oxygenated = RED (Left side)

• Regulation of body temperature



Components of blood - Red blood cells Carry oxygen from the lungs to the working muscles + Removes CO2.

Haemoglobin binds the oxygen

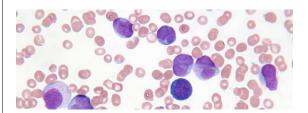


Blood vessels

Arteries	Veins	Capillaries
 Away from the heart Oxygenated blood (except pulmonary artery) Thick/elastic walls High pressure 	 Back to the heart Deoxygenated blood (except pulmonary vein) Thin walls + larger lumen Lower pressure 	 In the tissue Site of gaseous exchange Very thin walls

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.

