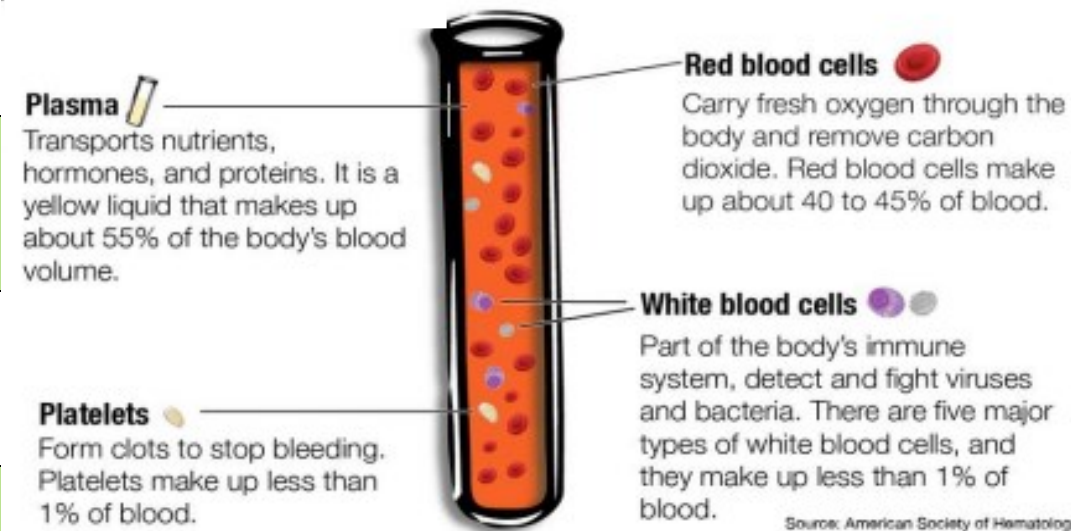


Animals Including Humans: Circulatory System

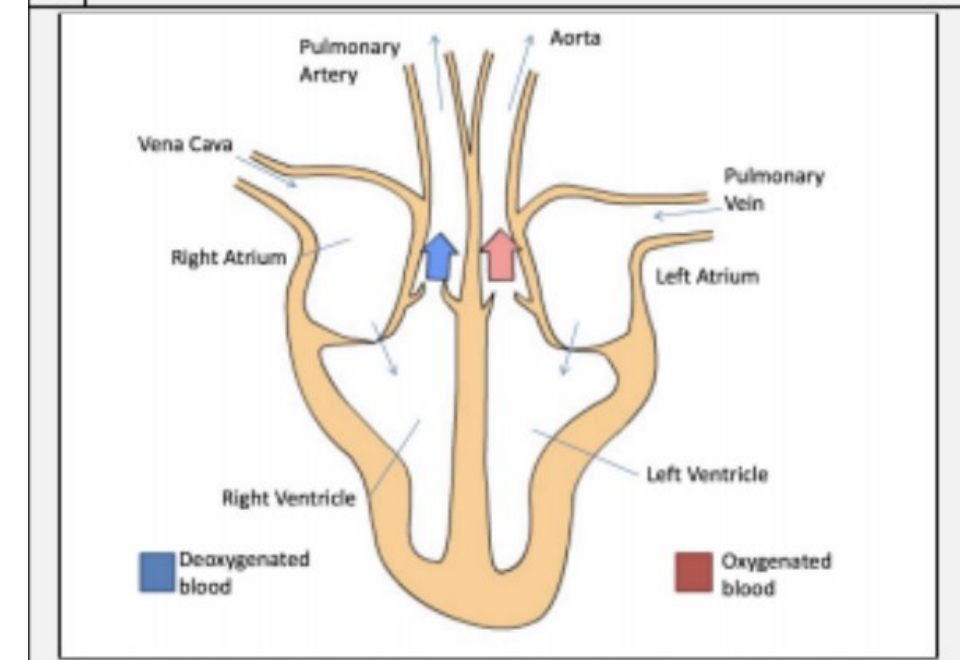
Vocabulary	Definition
Heart	A strong muscle in the chest protected by the ribs, that pumps blood around the body
Capillaries	Microscopic blood vessels found in the muscles and lungs
Artery (Arteries)	The vessels that take blood away from the heart
Veins	The blood vessels that carry blood back to the heart
Oxygenated blood	Blood that is rich in oxygen
De-oxygenated blood	Blood that contains very little oxygen
Blood	Liquid that travels to every cell in the body transporting nutrients and oxygen. Contains red, white blood cells, plasma and platelets
Atrium (Atria)	The upper chambers of the heart (Right and left atrium)
Ventricles	The lower chambers of the heart (Right and left ventricles)
Valve	A one-way 'door' that allows blood to flow freely in one direction, not allowing blood to flow back through the value.

What is blood?



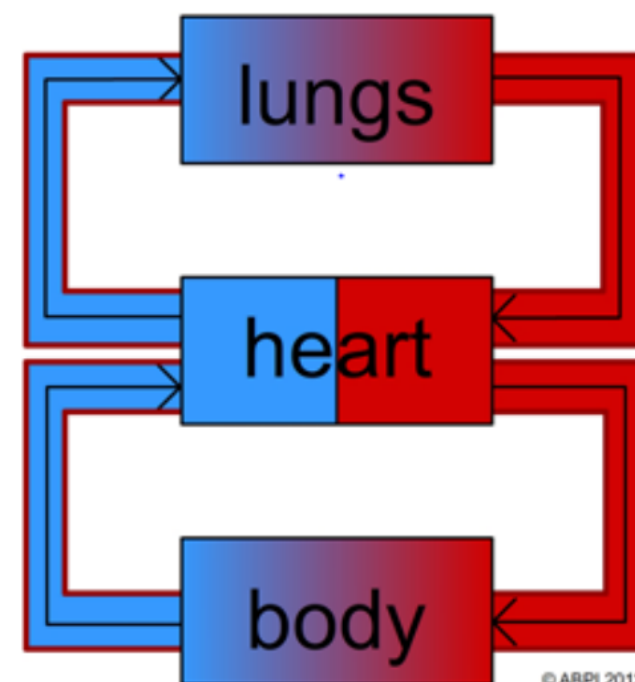
What is the structure of the heart and how does it work?

- Deoxygenated** blood flows into the heart from the body through the veins
- This blood is pumped out to the lungs through the **pulmonary artery**
- Blood is then **oxygenated** in the lungs
- Blood returns to the heart through the **pulmonary vein**
- The oxygenated blood is then pumped out of the heart through the **aorta**
- The blood travels around the body delivering oxygen and nutrients to the organs.



What is the circulatory system?

The circulatory system is composed of the blood vessels, heart and lungs. It pumps all of the resources around the body that our organs need.



How do we keep our circulatory system healthy?

Eating a balanced diet, avoiding too much alcohol and not smoking are all ways to help keep our bodies healthy and prevent diseases developing.