Year 6 Science knowledge organiser- The Circulatory system

Components of blood

Platelets 🔌

1% of blood.

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Plasma Transports nutrients, hormones, and proteins. It is a yellow liquid that makes up about 55% of the body's blood volume.

Form clots to stop bleeding.

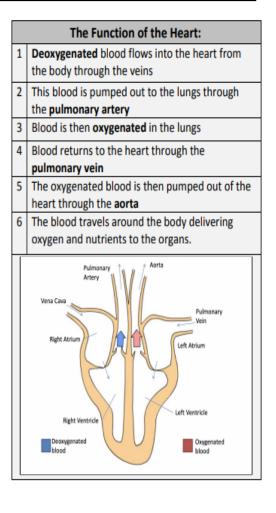
Platelets make up less than

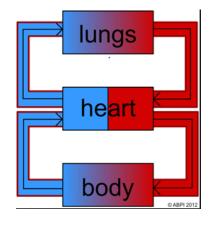
- Red blood cells Carry fresh oxygen through the body and remove carbon dioxide. Red blood cells make up about 40 to 45% of blood.

White blood cells 🧶 🥏

Part of the body's immune system, detect and fight viruses and bacteria. There are five major types of white blood cells, and they make up less than 1% of blood. Source: American Society of Hematology

Science Vocabulary Dozen	
Heart	A strong muscle in the chest protected by the ribs, that pumps blood around the body.
Lungs	Organs, situated within the ribcage, that allow oxygen to pass into the blood and carbon dioxide to be removed.
Blood Vessels	The tubes that carry blood around the body.
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.
Pulmonary	Related to the lungs and breathing.





The Circulatory system The system that circulates blood around the body.

Bad blood

Phrases Linked to The Circulatory System Make blood boil

Heart beating like a drum

Blue blood

Blood is thicker than water

From the bottom of my heart