



Science Knowledge Organiser – Year 6

Circulatory System: Does having a bigger heart make you a better person?



Vocabulary	Definition	Picture
artery	The vessels that take blood away from the heart	
blood	Liquid that travels to every cell in the body transporting nutrients and oxygen	
blood vessels	The tubes that carry blood around the body	
circulatory system	A system which includes the heart, veins, arteries and blood transporting substances around the body	
deoxygenated blood	Blood that contains very little oxygen	

Vocabulary	Definition	Picture
heart	A strong muscle in the chest that pumps blood around the body	
lungs	A pair of organs in your chest which fill with air when you breathe in	
oxygen	A colourless gas that exists in large quantities in the air and helps us live	
oxygenated blood	Blood that contains lots of oxygen	
vein	The blood vessels that carry blood back to the heart	



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Sticky Knowledge

The circulatory system is made up of the heart, blood vessels and blood.

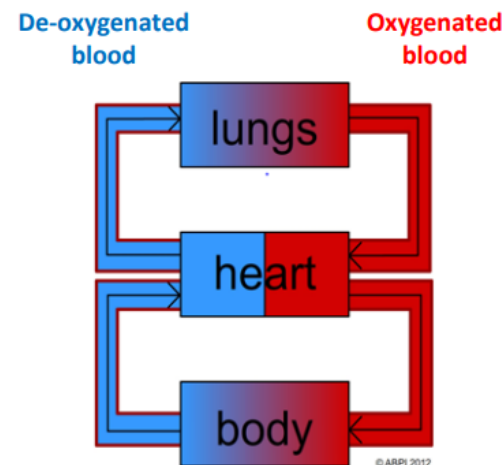
Arteries carry oxygenated blood from the heart to the rest of the body. Veins carry deoxygenated blood from the body to the heart.

Blood is made up of red blood cells, white blood cells, platelets and plasma. The function of blood is to carry nutrients and waste products around the body.

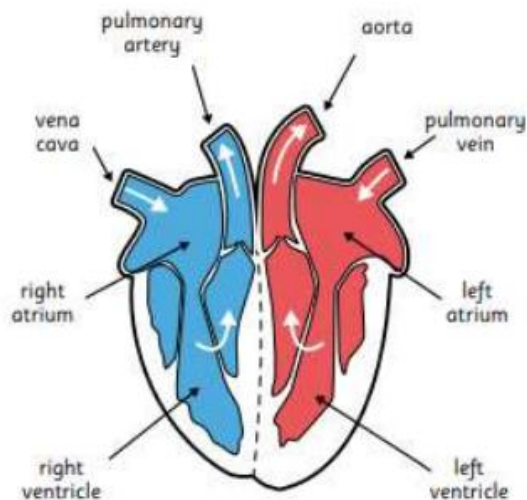
Exercise helps to keep you healthy. When we exercise our pulse rate increases.

Healthy balanced meals contain carbohydrates, proteins, fruits, vegetables and some fats.

The path of blood



The heart



Components of blood

Components of blood

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

Platelets
Form clots to stop bleeding. Platelets make up less than 1% of blood.

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