Animals Including Humans



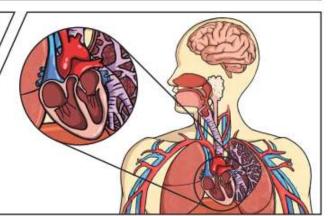
Key Vocabulary	
circulatory system	A system which includes the heart, veins, arteries and blood transporting substances around the body.
heart	An organ which constantly pumps blood around the circulatory system.
blood vessels	The tube-like structures that carry blood through the tissues and organs. Veins, arteries and capillaries are the three types of blood vessels.
oxygenated blood	Oxygenated blood has more oxygen. It is pumped from the heart to the rest of the body.

to the rest of the body.

The heart pumps blood to the lungs to get oxygen.

deoxygenated blood

It then pumps this oxygenated blood around the body.

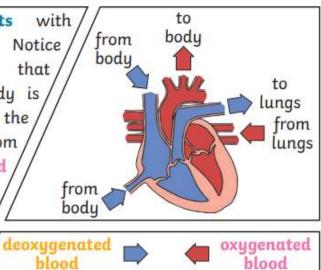


Deoxygenated blood is blood where most

of the oxygen has already been transferred

Science

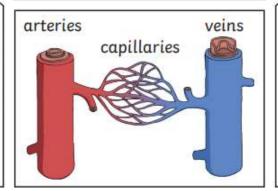
Mammals have hearts chambers. four how the blood has come from the body is deoxygenated, and blood that has come from the lungs is oxygenated again. The blood isn't actually red and blue: we just show it like that on a diagram.



Capillaries are the smallest blood vessels in the body and it is here that the exchange of water,

takes place.

Arteries carry oxygenated blood away from the heart.



nutrients, oxygen and carbon dioxide

Veins carry deoxygenated blood toward the heart.

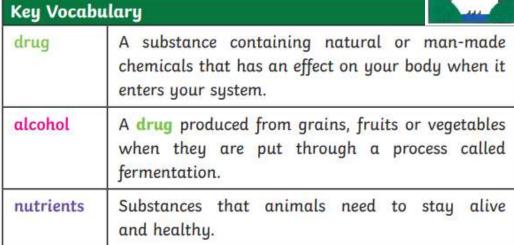
blood

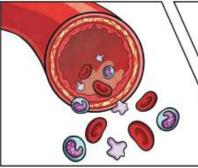
If you linked up all of the body's blood vessels, including arteries, capillaries, and veins, they would measure over 60,000 miles.

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Science





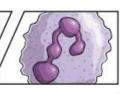
Blood transports:

- gases (mostly oxygen and carbon dioxide);
 - nutrients (including water);
 - waste products.

Plasma is liquid. The other parts your blood are solid.

Platelets

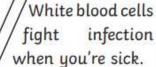
oxygen



stop bleeding when you get hurt. Red blood cells

help

you



through your body. Drugs, alcohol and smoking

have negative effects

carry

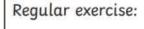
A healthy diet involves eating the right types of nutrients in the right amounts.











This is called plasma.

strengthens muscles including the heart muscle:

The liquid part of blood

contains water and protein.

- improves circulation;
- increases the amount of oxygen around the body;
- releases brain chemicals which help you feel calm and relaxed;
- helps you sleep more easily;
- strengthens bones.

It can even help to stop us from getting ill.



What careers can I achieve through this?

Doctor

Cardiologist

Physiotherapist

Dietician