Science Knowledge Organiser Animals including humans A

Tregonning Y5/6

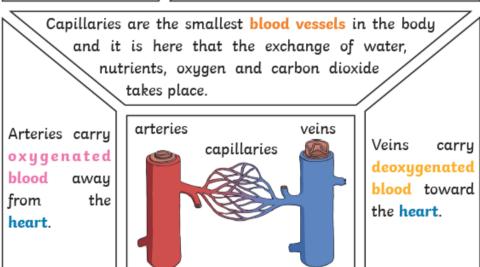


Key Vocabulary	
circulatory system	A system which includes the heart, veins, arteries and blood transporting substances around the body.
heart	An organ which constantly pumps blood around the circulatory system.
blood vessels	The tube-like structures that carry blood through the tissues and organs. Veins, 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.
deoxygenated blood	Deoxygenated blood is blood where most of the oxygen has already been transferred to the rest of the body.

The heart pumps blood to the lungs to get oxygen.

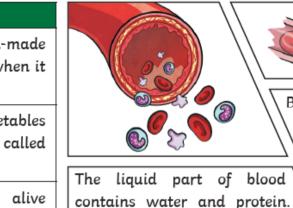
It then pumps this oxygenated blood around the body.

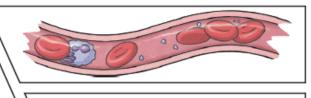
Mammals with have hearts bodu from four chambers. Notice blood how the that to has come from the body is lunas deoxygenated, and from blood that has come from lungs the lungs is oxygenated again. The blood isn't body actually red and blue: / we just show it like deoxygenated oxygenated blood that on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



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

Key Vocabulary	
drug	A substance containing natural or man-made chemicals that has an effect on your body when it enters your system.
alcohol	A drug produced from grains, fruits or vegetables when they are put through a process called fermentation.
nutrients	Substances that animals need to stay alive and healthy.





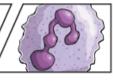
Blood transports:

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

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



Platelets help you stop bleeding when you get hurt.



Red blood cells oxygen carru through your body.



White blood cells fight infection when you're sick.

Drugs, alcohol and smoking have negative effects on the body.

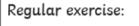


A healthy diet involves eating the right types of nutrients in the right amounts.









This is called plasma.

strengthens muscles including the heart muscle:

liquid part of blood

- 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.

