

Year 6-Term 5 – Science – The circulatory system



Curriculum Key Question: Where are we going?
Topic: Islam – what is it like to be a Muslim?

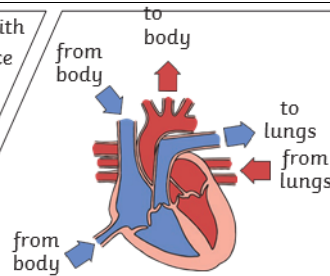
What should I already know?

Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. Describe the simple functions of the basic parts of the digestive system in humans.

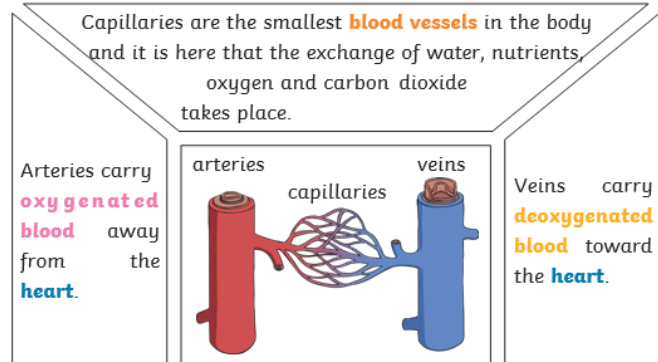
Scientific skills:

To independently ask a variety of scientific questions and decide the type of enquiry needed to answer them.
To predict what a graph might look like before collecting results.
To decide whether to repeat any readings and justify the reason for doing so.
To decide the most appropriate equipment to use to collect data.
To spot unexpected results that do not fit the pattern (anomalies).
To independently form a conclusion which draws on the evidence from the test.

Mammals have **hearts** with four chambers. Notice how the blood that has come from the body is **deoxygenated**, and the 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.



deoxygenated blood → ← oxygenated blood



Equipment we will use:



Regular exercise:

- strengthens muscles including the heart muscle;
- 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.



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



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.

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.