Year 6

Unit: Animals including humans

Prior learning

Year 2 - Describe the importance for humans of exercise, eating the right amounts of different foods, and hygiene.

Year 3 – Identify that animals (including humans) need the right type and amount of nutrition, and that they cannot make their own food. Year 4 – Describe the simple functions and workings of the digestive system. Later learning (not in Year 6) KS3 - The consequences of imbalances in the diet, including obesity, starvation, and deficiency diseases.

KS23 – The effects of recreational drugs on behaviour, health, and life processes.

KS3 – The impact of exercise, asthma, and smoking on the human gas exchange system.

KS3 – The mechanism of breathing to move air in and out of the lungs.

Key Questions:

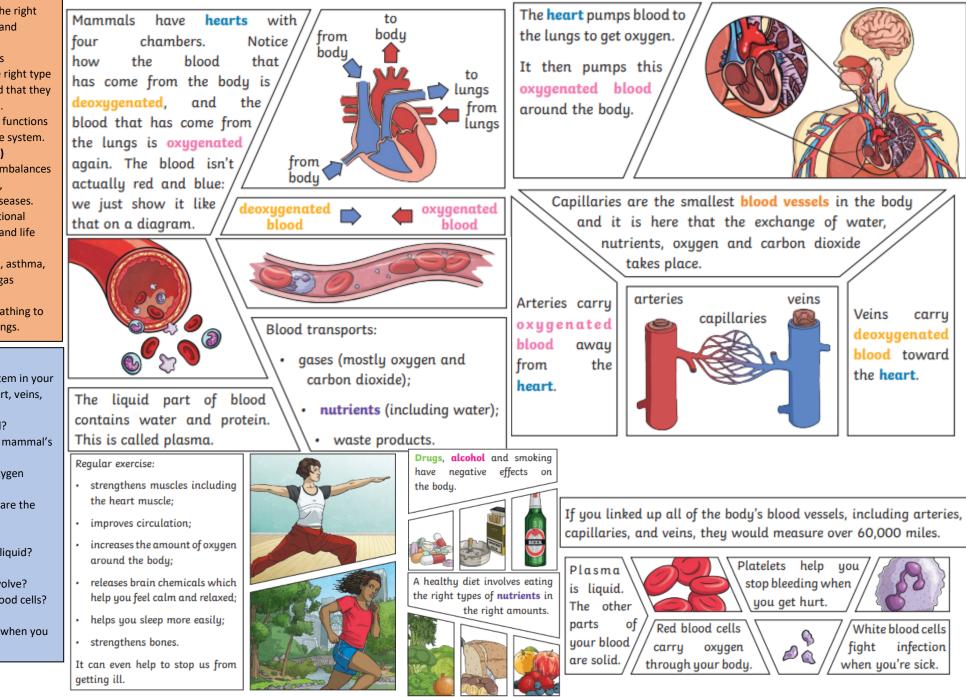
What is the name of the system in your body which includes the heart, veins, capillaries, and arteries? What is deoxygenated blood? How many chambers does a mammal's heart have?

Where does blood collect oxygen from?

- Which type of blood vessels are the smallest?
- What iob do the veins do? Which part of the blood is a liquid? What do platelets do?
- What does a healthy diet involve? What is the job of the red blood cells? What is plasma made up of? What happens in your brain when you exercise?

Intent:

To identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. To recognise the impact of diet, exercise, drugs, and lifestyle on the way their body functions. To describe the ways in which nutrients and water are transported within animals, including humans.



Vocabulary	
Alcohol	A drug produced from grains, fruits, or vegetables when they are put through a process called fermentation.
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.
Circulatory system	A system which includes the heart, veins, arteries, and blood transporting substances around the body.
Deoxygenated blood	Deoxygenated blood is blood where most of the oxygen has already been transferred to the rest of the body. This blood is returning to the
	heart to be reoxygenated.
Drug	A substance containing natural or man-made chemicals that influences your body when it enters your system.
Heart	An organ which constantly pumps blood around the circulatory system.
Oxygenated blood	Oxygenated blood has more oxygen. It is pumped from the heart to the rest of the body.
Nutrient	Substances that all living things need to stay alive and healthy.