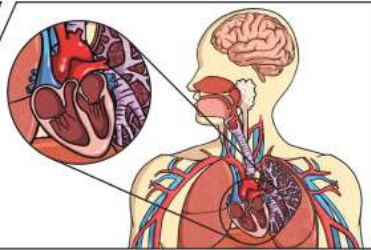


Circulatory System

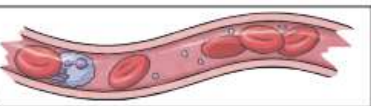
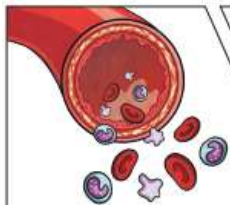
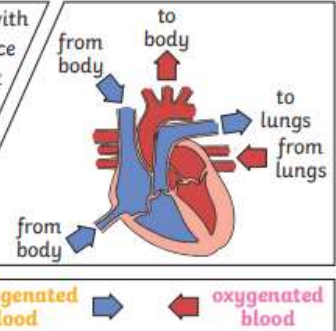
Unit Vocabulary – Join them up with the correct definition once you have learned it,

Circulatory system	Blood that contains oxygen. It is pumped from the heart to the rest of the body.
heart	The tube-like structures that carry blood through the tissues and organs.
Blood vessels	The liquid part of the blood which contains proteins and nutrients.
Oxygenated blood	A system which includes the heart, veins, arteries and blood transporting substances around the body.
Deoxygenated blood	These help the body fight infection when it is sick.
Plasma	These help to stop bleeding when you are hurt.
platelets	An organ which constantly pumps blood around the circulatory system.
Red blood cells	Blood where most of the oxygen has already been transferred to the rest of the body
White blood cells	These carry oxygen through the blood.

The **heart** pumps blood to the lungs to get oxygen. It then pumps this **oxygenated blood** around the body.



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.



Blood transports:

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

The liquid part of blood contains water and protein. This is called plasma.

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



Platelets help you stop bleeding when you get hurt.



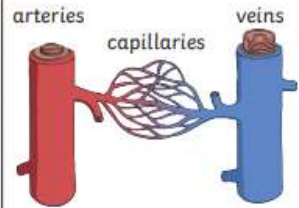
Red blood cells carry oxygen through your body.



White blood cells fight infection when you're sick.

Capillaries are the smallest **blood vessels** in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

Arteries carry **oxygenated blood** away from the **heart**.



Veins carry **deoxygenated blood** toward the **heart**.

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

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



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



Scientific Enquiries

1. Fill in learning questions

Exploring/
Problem Solving



Research



Observing over
time



Identifying and
classifying



Fair and
Comparative
testing

