

What should I already know?

I know the importance for humans of exercise, eating the right amount of different food and hygiene. • I know that animals including humans need the right types and amount of nutrition. They cannot make their own food; they get nutrition from what they eat. • I know the simple functions of the basic parts of the digestive system in humans. • I know the different types of teeth in humans and their simple

Enquiry Question

What is the circulatory system and how does it work?

Vocabulary

Circulatory system	parts of the body that work together to move blood around the body
Heart	the organ responsible for pumping blood around the body
Blood vessels	tubes within the body that carry blood
Veins	blood vessels that carry blood towards the heart
Arteries	blood vessels that carry blood away from the heart
Red blood cells	part of the blood that carries oxygen and removes waste products
White blood cells	part of the blood that fights viruses and bacteria
Plasma	part of the blood that carries nutrients
Oxygenated blood	blood that is carrying lots of oxygen
Deoxygenated	blood that is carrying little oxygen

The Human Circulatory System

The circulatory system is your body's delivery system. It is made up of your heart, blood and blood vessels. The human body needs a constant supply of blood to keep working.

The heart pumps blood in the blood vessels around to the lungs.

Oxygen goes into the blood and carbon dioxide is removed.

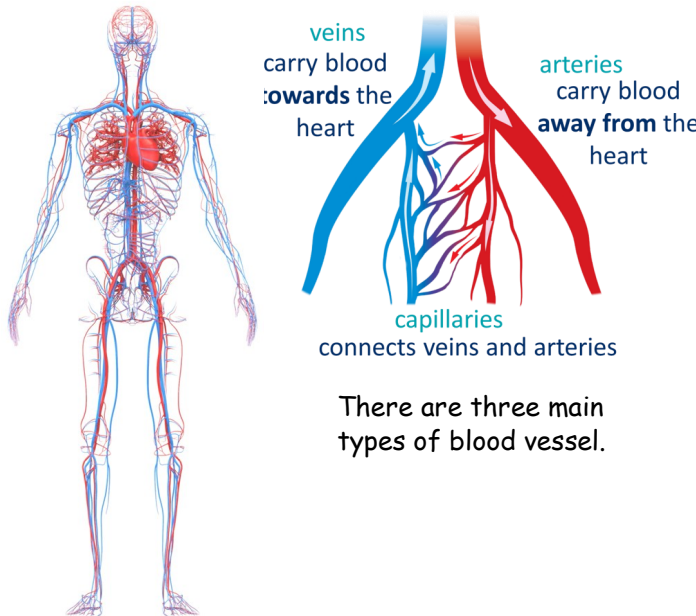
The blood goes back to the heart and is then pumped around the body.

Nutrients, water and oxygen are transported in the blood to the muscles and other parts of the body where they are needed.

As these things are used, they produce carbon dioxide and other waste products.

Carbon dioxide is carried by the blood back to the heart and onto the lungs to be removed from the body.

The cycle then starts again.

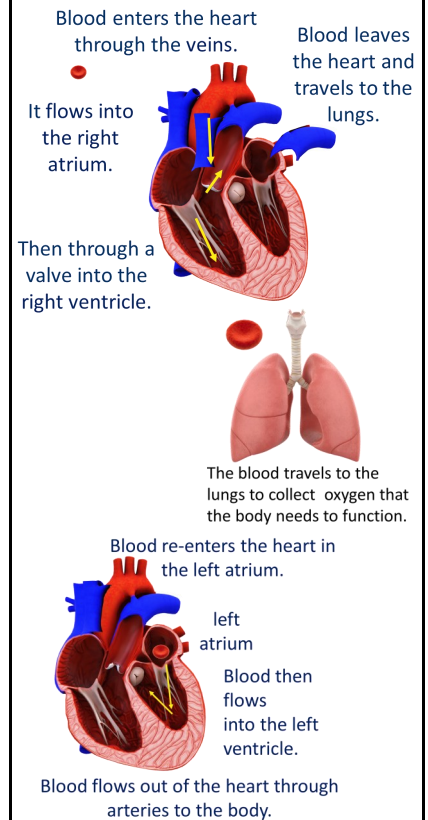


The Human Heart

The circulatory system is centred on the heart, an organ that works constantly to pump blood around the body.

The heart is made up of four sections, called chambers.

There are two sides to the heart (right and left) each of which have an atrium (at the top) and a ventricle (at the bottom).



Blood

Blood transports nutrients and oxygen to all parts of the body. It is made up of red blood cells, white blood cells and plasma.

