



Human Circulation



Key Vocabulary

circulatory system—made up of the heart, blood vessels and blood. It transports nutrients, water and

cell—a tiny unit of a living thing

blood- *red liquid that flows through our bodies and brings oxygen and nutrients to all the different parts*

blood vessels—*tubes that carry blood around the body*

arteries—*blood vessels that carry blood away from the heart*

veins—*blood vessels that carry blood back to the heart*

capillaries—*small blood vessels that carry blood through the tissues of the body*

pulse—*the rhythmic bulge in an artery felt when blood is pumped through it*

red blood cells—*the cells (which contain haemoglobin) which can carry oxygen in our blood*

white blood cells—*cells in our body which fight infection*

plasma—*the yellow liquid part of blood*

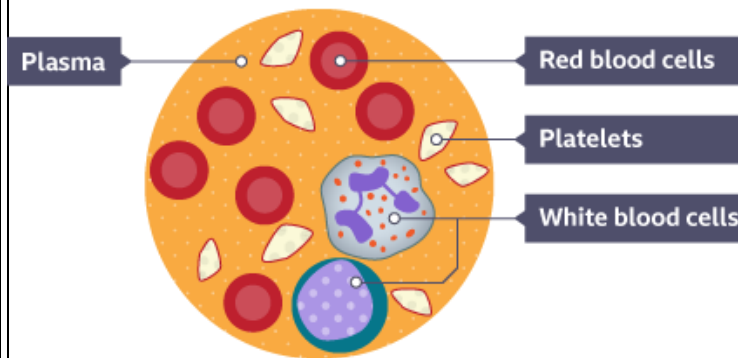
platelets—*tiny pieces in the blood that help with clotting when we are cut*

valve—*a flap that allows blood to pass through the heart or a vein in one direction only*

hormone— *chemical messenger in the body which causes growth, development or an action.*

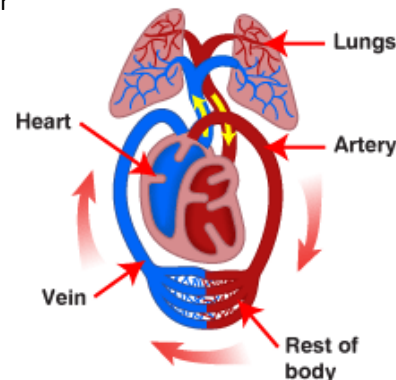
What is blood made of?

Blood carries oxygen, water, and the nutrients from food that are used for energy and growth, around the body. Blood is made up of plasma (a liquid in which blood cells and nutrients travel), red blood cells (which carry oxygen), white blood cells (which fight infection) and platelets (which help blood to clot around a cut).



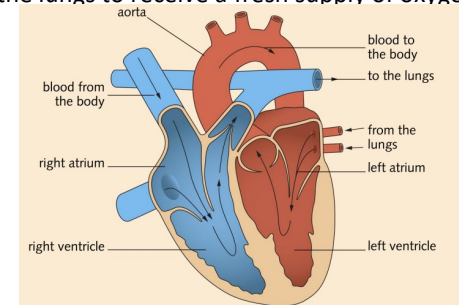
What is the circulatory system and what does it do?

The human circulatory system pumps blood from the heart to the lungs, back to the heart and onto the rest of the body in a figure-of-eight system. Blood passes through each side of the heart separately in



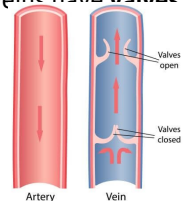
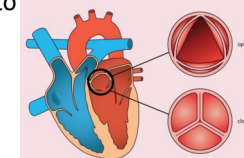
What is a heart and what does it do?

The heart is a muscle. It has two separate sides. The left side receives blood full of oxygen from the lungs and pumps it around the rest of the body, and the right side receives blood from the body that has had the oxygen used up and pumps it back to the lungs to receive a fresh supply of oxygen.



What are blood vessels and valves and what do they do?

Arteries are blood vessels that carry **oxygenated blood away** from the heart. **Veins** carry **deoxygenated blood** from the rest of the body **back to the heart**. The heart and veins have **valves** to stop blood flowing backwards.



What did William Harvey find out about the circulatory system?

William Harvey was a scientist who discovered how the human circulatory system worked. Scientific ideas change as more evidence is found. Scientists do not always agree with each other.

