

Science Year 6 Spring 1: Animals Including Humans

Key vocabulary to learn and use in your learning.

Word	Definition
capillaries	A fine branching blood vessel that carries oxygen and waste products around the body.
circulation	Moving fluid e.g. blood around the body.
artery	Tubes which carry (mainly) oxygenated blood around the body.
vein	Tubes carrying oxygen-depleted blood back towards the heart.
organ	Part of the body that has a specific and
nicotine	A toxic, colourless liquid that forms part of tobacco. It acts as a stimulant and is ad-
addiction	Being dependent on a particular activity.
oxygen	A colourless and odourless gas present in air and needed to support life.
carbon dioxide	A gas naturally present in air and absorbed by plants. A gas that humans breathe out.



Charles Drew— (Born 1904) Charles Richard Drew was an American surgeon and medical researcher. He researched in the field of blood transfusions, developing improved techniques for blood storage, and applied his expert knowledge to developing large-scale blood banks early in World War II.

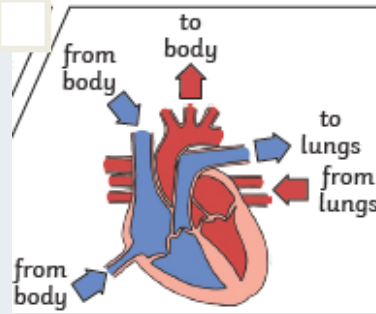
Key knowledge to learn



Human Circulatory System

Made up of heart, blood and blood vessels, the circulatory system is your body's delivery system. It delivers water, nutrients and oxygen to your billions of body cells and carries away waste products such as carbon dioxide that the body cell produce.

The heart is made up of 4 chambers. The right side takes de-oxygenated blood. Blood then receives oxygen from the lungs before being pumped back to the left side of the heart and to the body via the aorta. The blood isn't actually blue and red, but just shown like that on the diagram!



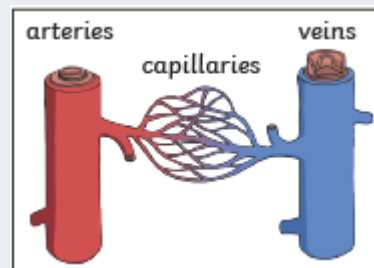
Capillaries are the smallest blood vessels in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

Arteries carry oxygenated blood away from the heart.

Veins carry de-oxygenated blood toward the heart.

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

Red blood cells carry oxygen through your body. Platelets help you stop bleeding when you get hurt. White blood cells help to fight off infection when you get sick.



DRUGS

Lifestyle, diet, exercise and drugs all have an impact on how healthy our bodies are and therefore how well your body is able to function. Regular exercise strengthens our heart, improves our circulation, helps you to sleep and strengthens bones.