

Year 6 Science Knowledge Organiser - Animals Including Humans

<u>Word</u>	<u>Definition</u>
Arteries	Tubes in your body that carry oxygenated blood from your heart to the rest of your body.
Atrium	The part of your heart that receives blood from the veins.
Blood Vessels	Narrow tubes that your blood flows through.
Carbon Dioxide	A gas produced by animals and people breathing out.
Circulatory System	The system responsible for circulating blood through the body, that supplies nutrients and oxygen to the body and removes waste products such as carbon dioxide.
Deoxygenated	Blood that does not contain oxygen.
Heart	The organ in your body that pumps blood around the body.
Lungs	Two organs in your chest which fill with air when you breathe in. They oxygenate the blood and remove carbon dioxide.
Nutrients	Substances that help animals and plants grow.
Organ	A part of the body that has a particular purpose and performs specific functions.
Oxygen	A colourless gas that plants and animals need to survive.
Oxygenated	Blood that contains oxygen.
Respiration	Inhaling oxygen-rich air and exhaling air filled with carbon Dioxide.
Veins	A tube in your body that carries deoxygenated blood to your heart from the rest of your body.
Ventricle	The part of your heart from which blood passes into the arteries.

Healthy Bodies

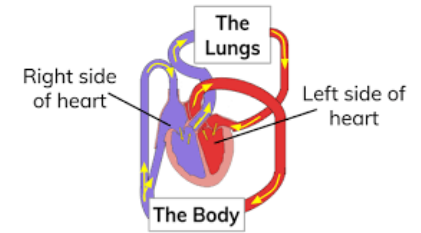
Diet, exercise, drugs and other lifestyle choices have an impact on how our bodies function. **This can affect how well our heart and lungs work and how fit and well we feel.** Some choices such as smoking, drinking and obesity can be harmful to our health.

Why is exercise so important?

Exercise can increase fitness, make you feel physically and mentally healthier, strengthen your heart and improve your lung function.



The Human Circulatory System.

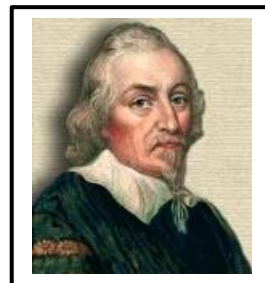


- The heart pumps blood in the blood vessels to the lungs where oxygen goes into the blood and carbon dioxide is removed.
- The blood goes back to the heart.
- It is then pumped around the body so that water, nutrients and oxygen are transported in the blood to the muscles and all the other parts of the body where it is needed.
- Carbon Dioxide is carried by the blood in the blood vessels back to the heart.
- The cycle starts again as the carbon dioxide is then transported back to the lungs to be removed from the body.

A significant Scientist - Linked to the topic of Animals Including Humans

William Harvey (1578-1657)

William Harvey was an English physician and the first person to correctly describe bloods circulation in the body. He showed that arteries and veins form a complete circuit.



Sticky Knowledge is in red!