Science – Animals, Including Humans

Year 6
Spring Term 1

Key Learning

Identify and name the main parts of the human heart and circulatory system.

Describe the functions of the heart, blood vessels and blood.

Investigate effect of exercise on heart rate.

Recognise the impact of smoking on the way our bodies function.

Understand the effects of diet and exercise on our bodies.

Describe the ways in which nutrients and water are transported within animals, including humans.

Working Scientifically

- Plan different types of scientific enquiries to answer their own or others' questions, including recognising and controlling variables where necessary.
- Identify scientific evidence that has been used to support or refute ideas or arguments.
- Record data and results or increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar, and line graphs.
- Use test results to make predictions to set up further comparative and fair tests.

Key Vocabulary

Term	Definition
Heart	A hollow muscular organ that pumps the blood through the circulatory system by rhythmic contraction and dilation.
Blood vessels	A tubular structure carrying blood through the tissues and organs (artery, vein, capillary).
Capillaries	Any of the fine branching blood vessels that form a network.
Veins	The tubes forming part of the blood circulation system of the body, carrying deoxygenated blood towards the heart.
Arteries	The tubes forming part of the blood circulation system of the body, carrying oxygenated blood from the heart to the body.
Aorta	The main artery of the body.
Absorb	Take in or soak up a liquid or other substance.
Oxygen	The gas found within the air we breathe that keeps us alive.
Carbon dioxide	A molecule that contains two oxygen atoms and one carbon atom. It can be found as a gas in the air, or as a solid in the form of dry ice, which is very cold.
Digestive system	Consists of the parts of the body that work together to turn food and liquids into the building blocks and fuel that the body needs.