

Science: Animals Including Humans

Year 6 Spring 1

Key Vocabulary

Circulatory system	The system that circulates blood through the body.
Blood vessels	A tubular structure carrying blood through the tissues and organs e.g. a vein, artery or capillary.
Heart rate	The speed at which the heart beats.
Transported	Take or carry something from one place to another.
Oxygen	A colourless, odourless reactive gas, the chemical element of atomic number 8 and the life-supporting component of the air.
Carbon Dioxide	A gas produced by burning carbon and organic compounds and by respiration.
Pulse	A rhythmical throbbing of the arteries as blood is pushed through, typically felt in the wrists or neck.
Drugs	A medicine or other substance which has a physiological effect when ingested or otherwise introduced into the body.
Lifestyle	The way in which a person lives.

Why don't you...

Research the different blood types and make a poster to show what they are? Find your resting pulse rate and compare this with someone in your household? Investigate how different types of exercise affect both of your pulse rates? Research what constitutes a healthy lifestyle for your pet or your favourite animal?

Website Links

<https://www.bbc.co.uk/bitesize/topics/zcyycdm/year/zncsscw>

www.stem.org.uk/resources/community/collection/13109/year-6-animals-including-humans

www.kidshealth.org/en/teens/heart.html

Scientific Concepts

Structure and Function – Anything composed of parts arranged together in some way has a structure. A function is a specific job or procedure.

Adaptation, Evolution and Survival – The process by which animals, plants and other living things have changed so that they are better suited to their habitat is called adaptation. Evolution is the way that living things change over time. Survival is the way things adapt and seek things to ensure they continue to exist.

Process - A series of actions or steps taken in order to achieve a particular end. The process of increasing in size.

Enquiry Questions

How does blood travel through your body?
 Are there any parts of your circulatory system you could survive without?
 What is the difference between a single and double circulatory system?
 How many animals can you name with a double circulatory system?
 What would happen if you removed half the blood from your body?
 How are water and nutrients transported around our body?
 Is it ok to have an unhealthy diet but take vitamins instead?
 Are all drugs bad?
 What would happen if we never slept?

Scientific Knowledge

Name and locate the major organs in the human body.
 Identify and name the main parts of the human circulatory system.
 Describe the functions of the heart, blood vessels and blood.
 Recognise the impact of diet, exercise, drugs and lifestyle on the way the body functions.

Scientific Skills

Make a prediction with reasons.
 Present a report of their findings through writing, display and presentation.
 Obtaining and presenting evidence.
 Take measurements using a range of scientific equipment with increasing accuracy and precision.
 Record more complex data and results using scientific diagrams, classification keys, tables, bar charts, line graphs and models.
 Report findings from investigations through written explanations and conclusions.