

Year 6 Knowledge Organiser Why don't humans live forever?

Skills

Observing over Time:

Pulse rates before, during and after exercise

Pattern Seeking:

Children generate questions for investigation such as:

Older people have lower pulse rates? Boys have higher pulse rates?

Comparative/Fair Testing:

Completing different activities to compare impact on own heart rate

Researching:

Generate questions to research about the human circulatory system (children to present what they've learned in different ways: create a model, write a song, write a story, create a PPT, etc.)

Knowledge

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

Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood

Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function

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Key vocabulary	
Circulatory system	A system which has the heart, veins, arteries and blood transporting substances around the body
Heart	An organ which constantly pumps blood around the body.
Blood vessels	Tubes which transport the blood around the body (veins towards the lungs, arteries away from the lungs).
Alveoli	Tiny air sacs in the lungs where gas exchange takes place.
Gas exchange	The process by which oxygen enters the bloodstream from the lungs and the lungs receive carbon dioxide from the blood to breathe out.
Lungs	A pair of spongy organs located in the chest and used for breathing.
Nutrients	Substances that animals need to stay alive and healthy.
Kidneys	Organs which filter blood and produce urine.
Liver	An organ which processes waste from the blood.
Drug	Any substance that has an effect on your body

Facts
Organs and muscles need oxygen to work.
The heart pumps blood to the lungs to get oxygen. It then pumps this oxygenated blood around the body.
Food enters the body through the mouth and is broken down as it passes through the digestive system.
Nutrients and water pass through small intestine into the blood stream.
Regular exercise has many benefits to body including the circulatory system.

Heart and Blood Circulation System

The image contains three main visual elements:

- Heart and Blood Circulation System Diagram:** A detailed diagram of the human heart and its associated blood vessels. It shows the pulmonary circulation (blue) and systemic circulation (red). Labels include: Lungs, Pulmonary Artery, Pulmonary Vein, Right Atrium, Left Atrium, Right Ventricle, Left Ventricle, Venae Cavae, Aorta, and Capillaries.
- Negative Effects Collage:** A collage of items representing negative health effects, including a bottle of beer, a pack of cigarettes, a lit cigarette in an ashtray, and various pills.
- Human Torso:** A 3D illustration of a human torso with internal organs highlighted in red, including the heart, lungs, liver, stomach, and intestines.

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