

Uplands Manor Primary School - Science Unit Organiser

Science Topic:	Animals, including humans		Year 6	
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What? (Key Vocabulary)	
Spelling	Definition/Sentence
Oxygen	The air we breathe in
Addictive	Substance that causes you to need more and more (out of control)
Substance	The real physical matter of which a person or thing consists
Breathe	To take air into the lungs and then expel it
Circulatory	Relating to the circulation of blood

What? (Key Knowledge)	
The Human Circulatory System	
The main parts of the human circulatory system	<ul style="list-style-type: none"> Heart Blood vessels Blood
What does the heart do?	<ul style="list-style-type: none"> The heart pumps the blood through the blood vessels so that food and oxygen can get to all the parts of the body
What do the blood vessels do?	<ul style="list-style-type: none"> The blood vessels carry the blood around the body
There are three main types of blood vessels	<ul style="list-style-type: none"> The arteries, which carry the blood away from the heart The capillaries, which enable the actual exchange of energy between the blood and the tissues The veins, which carry blood from the capillaries back toward the heart
What does the blood do?	<ul style="list-style-type: none"> Blood moves food and oxygen around the body

Diagrams and Symbols

<https://www.nhs.uk/live-well/eat-well/the-eatwell-guide/>

Healthy Lifestyle	
Things humans need to be healthy	<ul style="list-style-type: none"> To have a balanced diet of the right amount of different types of food and drink To exercise regularly To be hygienic
What is a balanced diet?	<ul style="list-style-type: none"> See the Eatwell Guide (see diagram) Drink 6-8 cups/glasses of fluids each day
Health risks that can damage the body	<ul style="list-style-type: none"> Smoking Drugs Alcohol Obesity
Dangers of smoking	<ul style="list-style-type: none"> Addictive Can cause heart disease and cancer
Dangers of drugs	<ul style="list-style-type: none"> Addictive Can damage the brain or cause death
Dangers of alcohol	<ul style="list-style-type: none"> Ok in small amounts for adults Can damage the liver, heart and stomach
Dangers of obesity	<ul style="list-style-type: none"> Can cause heart disease Can lead to cancer

Recommended Experiments	
A minimum of two experiments should take place during this unit of work with one final written outcome linked to the scientific enquiry skills and approaches used.	
	Setting up tests to investigate the impact of exercise on the way the human body functions
	Designing and making a circulatory system with a pump
	Researching to find out what causes the heart to work harder/maximum heart rates
	Creating a key to classify plants and animals based on specific characteristics

Builds on: learning in Year 5 - Autumn 1 - Unit: Animals, including humans	Learning links	Leads to: learning in KS3 - (Year 7) - Biology
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