

Science



<p>Upper Key Stage 2</p> <p>Year A Spring Term</p>	<p>Big Picture: Circulatory System and Healthy Lifestyle</p>			<p>Resources</p>
<p>Science skills</p> <p>Developed through:</p> <ul style="list-style-type: none"> questioning using evidence enquiries and testing observations and measurement data conclusions and predictions differences, similarities and changes 	<p>What we want children to know:</p> <ul style="list-style-type: none"> 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 Describe the ways in which nutrients and water are transported within animals, including humans. 	<p>Science skills to be developed:</p> <ul style="list-style-type: none"> Create a role play model for the circulatory system Carry out a range of pulse rate investigations Fair test – effect of different activities on my pulse rate Pattern seeking – exploring which groups of people may have higher or lower resting pulse rates Observation over time - how long does it take my pulse rate to return to my resting pulse rate (recovery rate) Pattern seeking – exploring recovery rate for different groups of people Learn about the impact of exercise, diet, drugs and lifestyle on the body. This is likely to be taught through direct instruction due to its sensitive nature 	<p>Possible evidence:</p> <ul style="list-style-type: none"> Shows understanding of a concept using scientific vocabulary correctly Draw a diagram of the circulatory system and label the parts and annotate it to show what the parts do Produce a piece of writing that demonstrates the key knowledge e.g. explanation text, job description of the heart Applying knowledge in familiar related contexts, including a range of enquiries Use the role play model to explain the main parts of the circulatory system and their role Use subject knowledge about the heart whilst writing conclusions for investigations Explain both the positive and negative effects of diet, exercise, drugs and lifestyle on the body Present information e.g. in a health leaflet describing impact of drugs and lifestyle on the body 	<p>Diagrams of circulatory system</p> <p>Video clips of circulatory system</p> <p>Timers</p> <p>Visitors: Drug awareness expert / Nurse / doctor / dietician</p>
	<p>Read, spell and pronounce vocabulary with confidence -:</p> <p>Scientific vocabulary: Identify, name, function, recognise, impact, describe, observe, appearance, explain, , devise, research, investigate, features, effects, similar, different, similarity, difference, environment, diagram,</p> <p>Topic-specific vocabulary: Heart, pulse, rate, pumps, blood, blood vessels, transported, lungs, oxygen, carbon dioxide, nutrients, water, muscles, cycle, circulatory system, diet, exercise, drugs and lifestyle, vitamin deficiencies, diabetes,</p>			