

Year 6: Science autumn term 1	Unit: Body pump and Body health (2 units)	Theme: Animals including humans																																
<p>What I should already know:</p> <p>I know which things are living and which are not. I can classify animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates) I know that animals are carnivores, herbivores and omnivores. I know that animals have offspring which grow into adults. I know what animals need to survive (water, food, air) and animals get nutrition from what they eat. I can identify the importance of exercise, hygiene and a balanced diet. I know that some animals have skeletons for support, protection and movement. I can recognize the basic parts of the digestive system. I know the different types of teeth in humans. I know that respiration is one of the seven life processes. I know the life cycle of a human and how we change as we grow.</p>	<p>What I will know by the end of the unit:</p> <p>I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. I can recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. I can describe the ways in which nutrients and water are transported within animals, including humans.</p>	<p>Vocabulary</p> <table border="1"> <tr> <td>Alcohol</td> <td>Wine, beer, spirits, and other drinks which are intoxicating</td> </tr> <tr> <td>Alveoli</td> <td>Tiny air sacs of the lungs which allow for rapid gaseous exchange.</td> </tr> <tr> <td>Artery</td> <td>Tubes in your body that carry oxygenated blood from your heart to the rest of the body.</td> </tr> <tr> <td>Capillary</td> <td>Tiny blood vessels in your body.</td> </tr> <tr> <td>Circulatory system</td> <td>The system responsible for circulating blood through the body. This supplies nutrients and oxygen to the body and removes waste products such as carbon dioxide.</td> </tr> <tr> <td>Carbon dioxide</td> <td>A colourless, odourless gas produced by respiration.</td> </tr> <tr> <td>Drugs</td> <td>A medicine or other substance which has a physiological effect when ingested or otherwise introduced into the body</td> </tr> <tr> <td>Gas exchange</td> <td>Oxygen and carbon dioxide switch places between a capillary.</td> </tr> <tr> <td>Heart</td> <td>The organ in your chest that pumps blood around your body.</td> </tr> <tr> <td>Kidneys</td> <td>Each of a pair of organs in the abdominal cavity of mammals, birds, and reptiles, that excrete urine.</td> </tr> <tr> <td>Liver</td> <td>Organ in the abdomen of vertebrates, involved in many processes.</td> </tr> <tr> <td>Lungs</td> <td>Two organs inside your chest which fill with air when you breathe. They oxygenate the blood and remove carbon dioxide from it.</td> </tr> <tr> <td>Nutrients</td> <td>A substance essential for staying alive and growing.</td> </tr> <tr> <td>Oxygen</td> <td>A colourless gas that plants and animals need to survive.</td> </tr> <tr> <td>Pulmonary</td> <td>Relating to the lungs.</td> </tr> <tr> <td>Vein</td> <td>Tubes in your body that carry deoxygenated blood to your heart from the rest of the body.</td> </tr> </table>	Alcohol	Wine, beer, spirits, and other drinks which are intoxicating	Alveoli	Tiny air sacs of the lungs which allow for rapid gaseous exchange.	Artery	Tubes in your body that carry oxygenated blood from your heart to the rest of the body.	Capillary	Tiny blood vessels in your body.	Circulatory system	The system responsible for circulating blood through the body. This supplies nutrients and oxygen to the body and removes waste products such as carbon dioxide.	Carbon dioxide	A colourless, odourless gas produced by respiration.	Drugs	A medicine or other substance which has a physiological effect when ingested or otherwise introduced into the body	Gas exchange	Oxygen and carbon dioxide switch places between a capillary.	Heart	The organ in your chest that pumps blood around your body.	Kidneys	Each of a pair of organs in the abdominal cavity of mammals, birds, and reptiles, that excrete urine.	Liver	Organ in the abdomen of vertebrates , involved in many processes.	Lungs	Two organs inside your chest which fill with air when you breathe. They oxygenate the blood and remove carbon dioxide from it.	Nutrients	A substance essential for staying alive and growing.	Oxygen	A colourless gas that plants and animals need to survive.	Pulmonary	Relating to the lungs .	Vein	Tubes in your body that carry deoxygenated blood to your heart from the rest of the body.
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<p>Health facts</p> <p>The health of humans can be adversely affected by the following:</p> <ul style="list-style-type: none"> * A poor diet: A healthy diet is one that helps to maintain or improve general health, providing the body with essential nutrition, including water, protein, essential fatty acids, vitamins, minerals and adequate energy (expressed in calories). * Exposure to disease-causing micro-organisms: Micro-organisms can be transmitted to and between humans in several ways. * Exposure to harmful substances: These include tobacco. * Lack of exercise, rest and sleep. 	<div data-bbox="797 624 972 863" data-label="Image"> </div> <p>Key Scientist</p> <p>Barbara Casadei - a researcher helping The British Heart Foundation find cures for cardiovascular conditions.</p> <p>The heart is composed of four chambers; the right atrium, the right ventricle, the left atrium and the left ventricle.</p> <div data-bbox="797 1015 1039 1206" data-label="Diagram"> </div> <p>The rate that your heart pumps is called your pulse.</p> <div data-bbox="808 1289 999 1374" data-label="Diagram"> </div>																																	