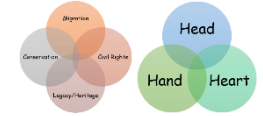
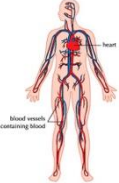
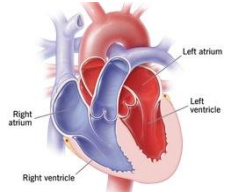
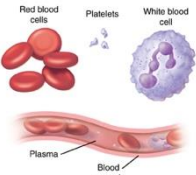
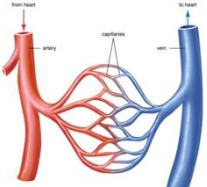




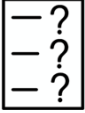








# Year 6 – Autumn 1 – Science – Pupil Knowledge Organiser



What do I already know?		What am I learning now?		
<ul style="list-style-type: none"> <li>When we exercise, our hearts beat faster.</li> <li>Eating a balanced diet is important in maintaining a healthy body.</li> <li>Digestion is the process of breaking down food to be absorbed into the blood.</li> <li>Nutrients are absorbed into the small intestine.</li> </ul>		<ol style="list-style-type: none"> <li>What is blood and what are its components?</li> <li>What are the different parts of the heart and their functions?</li> <li>How does the circulatory system work?</li> <li>How are nutrients and water transported within the body?</li> <li>How does diet and exercise impact the body's functions?</li> <li>How does lifestyle impact the circulatory system?</li> </ol>		
Key Knowledge: Animals Including Humans		Key Skills: Working Scientifically	Key Vocabulary	
 <p>The circulatory system is made of the heart, blood vessels, and blood.</p> <p>The circulatory system is needed to transport oxygen, nutrients, and water.</p>  <p>The heart has four chambers, two atria and two ventricles.</p> <p>The walls of the heart are made of muscle which contracts (gets smaller) to pump blood around our bodies.</p>  <p>Blood includes red and white blood cells, platelets, and plasma.</p> <p>Red blood cells carry oxygen, whilst white cells fight infections.</p>  <p>Blood vessels include arteries, veins and capillaries.</p>		<p>Capillaries allow oxygen, nutrients, water, and waste to pass between blood and body cells.</p>  <p>Regular exercise enhances the health of the heart and vessels and muscle strength.</p>  <p>Smoking and unhealthy habits can harm our heart and blood vessels, leading to heart diseases.</p>	 <p>Ask Questions</p>  <p>Conclusions</p>  <p>Enquiry</p>  <p>Observe</p>  <p>Record/ Present</p>  <p>Evaluation</p>  <p>Communicate</p>	<p>Circulatory System</p> <p>heart</p> <p>blood</p> <p>blood vessel</p> <p>vein</p> <p>artery</p> <p>capillaries</p> <p>pulse</p> <p>oxygen</p> <p>carbon dioxide</p> <p>A group of body parts that work together to transport useful substances and remove waste products from the body.</p> <p>A major organ in the body protected by the rib cage.</p> <p>The substance that carries nutrients, water and gases (e.g. oxygen).</p> <p>Tube that carries blood in the body.</p> <p>A blood vessel that carries blood towards the heart.</p> <p>A blood vessel that carries blood away from the heart.</p> <p>Tiny blood vessels joining the end of an artery to the beginning of a vein.</p> <p>The movement of blood that you can feel in your neck or wrists.</p> <p>Gas that is needed by the body.</p> <p>A gas waste product of the body.</p>