



Pinner Wood School



Year Group	6	Term	Spring 1	Subject	Science	Topic	Animals including humans - The Heart
						Key Question	How important is the heart?
Prior Learning and other Curriculum Links	Year 1 - label basic parts of the human body Year 2 - importance or exercise Year 4 - digestive system Year 6 - South America - obesity and healthy eating				Target Tracker statements (Skills)	<ul style="list-style-type: none"> I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. 	
Fundamentals	identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood				Key Facts/Sticky Knowledge	The heart is a main organ and is a muscle that pumps blood around the body. Label the heart diagram Arteries take blood away from the heart when blood is pumped through these you can feel your pulse. Veins take blood towards the heart. Capillaries are tiny blood vessels which take the blood into organs and tissues. The right atrium collects the deoxygenated blood from the body, via the vena cava. It sends the blood to the right ventricle. The right ventricle pumps the deoxygenated blood to the lungs. Here the blood picks up oxygen and disposes of carbon dioxide. The lungs send oxygenated blood back to the left atrium which pumps it to the left ventricle. The left ventricle pumps the blood to the rest of the body, via the aorta. The circulatory system is made of the heart, lungs and the blood vessels Arteries carry oxygenated blood from the heart to the rest of the body Veins carry deoxygenated blood from the body to the heart.	

			Nutrients, oxygen and carbon dioxide are exchanged via the capillaries
Our Curriculum Journey	<p>Journey: Children will start this topic by understanding what the circulatory system is and label the parts of the heart. They will look in detail at the heart muscle and investigate what it does. The children will do this by learning key vocabulary and definitions to the parts of heart. They will then look at the valves and blood vessels in the human body and how veins take blood towards the heart from body organs and tissues. Following this, the children will discover what the other main components of blood are and will make a blood soup as a scientific demonstration of their knowledge. They will then go on to consider what different blood cells do and how they move. To end this unit, the children will have the opportunity to watch a live heart dissection and complete a report on this.</p>		
Key Vocabulary (revisited)	Heart, Pulse Muscles Vitamins Minerals Observation Question Record	Key Vocabulary (new)	<p>Aorta, artery, atrium, , chamber, chest cavity, circulation, circulatory system, valve, vein, vena cava, ventricle, lungs</p> <p>blood, blood vessel, capillaries ,deoxygenated/oxygenated blood, plasma, platelets, red/white blood cell, cells</p> <p>carbon dioxide, oxygen, nutrients</p> <p>secondary source, support/refute</p>