



Shadsworth Junior School



Curriculum

Year 6 Science Scheme of Work

Term: Autumn 1		Topic: Science- Circulatory System
Key Skills and Knowledge:		
<u>Circulatory System</u> 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.	<u>Working Scientifically</u> Explore the work of scientists and scientific research about the relationship between diet, exercise, drugs, lifestyle and health. Find more about the life of William Harvey. Set up an investigation to find out about the impact of exercise on the body, control variables, fair testing, take measurements with accuracy and precision. Record data in complex diagrams using line and scatter graphs. Report findings using detailed explanations in a conclusion backed with scientific evidence.	
Reading and Writing Opportunities (Long and Short Activities)		
Creative Ideas and Hooks		
Fact file about William Harvey	Dissection of a pig's heart (depending on availability of the heart)	
Story Writing – the journey of a blood cell around the human body.	What would a journey through the body look like?	
Presentation showing the relationship between the heart, blood and breathing.	Survey of pupil's blood types, linking maths with science.	
Balanced argument about blood transfusions / transplants / giving blood	Children to choose which format to present their results.	
Information Texts	PowerPoint presentation to perform to class.	
WOW – Everyone to run around the School playground and observe what happens to their own breathing.	Real life animal heart and lung dissection	
Links to PSHCE, Equality and British Values Work		
Drugs. Healthy lifestyle. Disability. The rights of newspapers to report what they want.		
Key Vocabulary:	Resources Available / Visits/Visitors	Useful Websites:
Heart, blood vessels, diet, exercise, drugs, lifestyle, nutrients, health, organs, chamber, oxygen, nutrients, circulation, cardiologists.	Text – Pig Heart Boy by Malorie Blackman Heart, lung and blood posters. 3D models of the heart and lungs. Visit to a hospital / Doctor visiting Heart and lungs from the butcher	https://www.youtube.com/watch?v=IEXBxijQREo Pre-Learning: Understand the benefits of correct food/nutrition