

Science Whole School Overview – 2022 - 2023

Year Group	Units of work					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p align="center">Humans and Materials</p> <p>Begin to use some senses in hands on exploration of natural materials</p> <p>Begin to explore collections of materials with similar and/or different properties.</p> <p align="center">Our Environment</p> <p>Talk about what they see, beginning to use a wider vocabulary</p> <p>Begin to understand the need to respect and care for the natural environment</p> <p align="center">Plants</p> <p>Begin to experience plant seeds and care for growing plants.</p>		<p align="center">Humans and Materials</p> <p>Begin to use all their senses in hands on exploration of natural materials</p> <p>Begin to explore collections of materials with similar and/or different properties.</p> <p>Exploration of ice</p> <p align="center">Plants</p> <p>Plant seeds and care for growing plants.</p> <p>Talk about what they see, continuing to use a wider vocabulary</p> <p>Begin to understand the need to respect and care for the natural environment</p> <p>Understand plants need water, sun and light</p> <p align="center">Forces</p> <p>Explore how things work</p> <p>Begin to explore and talk about different forces they can feel</p>		<p align="center">Materials</p> <p>Use all their senses in hands on exploration of natural materials.</p> <p>Explore collections of materials with similar and/or different properties.</p> <p>Talk about what they see, using a wide vocabulary.</p> <p>Talk about the differences between materials and changes they notice</p> <p>Effect of water on different materials</p> <p align="center">Animals</p> <p>Understand the key features of the life cycle of ⇒ chickens/hens</p> <p>Understand the need to respect and care for all living things.</p> <p align="center">Forces</p> <p>Explore how things work.</p> <p>⇒ Water wheels, pumps, hose pipes</p> <p>⇒ Tractor, horse box</p> <p>Explore and talk about different forces they can feel.</p>	
Reception	<p align="center">Humans</p> <p>Explore the natural world around them.</p> <p>Describe what they see, hear and feel whilst outside</p> <p align="center">Seasonal Changes</p> <p>Understand the effect of changing seasons on the natural world around them – Autumn into Winter</p>		<p align="center">Animals and Plants</p> <p>Explore the natural world around them, making observations and drawing pictures of animals and plants</p> <p align="center">Seasonal Changes</p> <p>Describe what they see, hear and feel whilst outside</p> <p>Understand the effect of changing seasons on the natural world around them.</p> <p>Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class</p>		<p align="center">Animals</p> <p>Explore the natural world around them, making observations and drawing pictures of animals</p> <p align="center">Seasonal Changes and States of Matter</p> <p>Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p>	
Year One	<p align="center">Humans</p> <p align="center">What can our bodies do?</p> <p>Identify, name, draw and label the basic parts of the human body</p> <p>Understand how we use our senses.</p>	<p align="center">Seasonal Changes</p> <p align="center">How do animals and humans</p>	<p align="center">Materials</p> <p align="center">What are toys made from?</p> <p>Objects and what they're made of</p> <p>Describe, compare and sort everyday materials</p>	<p align="center">Plants</p> <p align="center">Are all plants the same?</p>	<p align="center">Animals</p> <p align="center">Are animals and humans the same?</p>	<p align="center">Seasonal Changes</p> <p align="center">What have we learnt about the seasons?</p>

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		prepare for winter?		Name basic parts— identify common plants	Name common animals Name carnivores, herbivores, omnivores Describe and compare the structure of a variety of common animals	
	Seasonal Changes - Autumn		Seasonal Changes - Spring		Seasonal Changes - Summer	
Year Two	<p align="center">Humans How do humans ensure their survival?</p> <p>Basic needs for survival. Importance of exercise, food hygiene.</p>	<p align="center">Animals Does all animal offspring look like their parents? Animals have offspring, basic needs for survival.</p>	<p align="center">Plants Why are plants so important?</p> <p>Seed/bulb grow into plants. What plants need.</p>	<p align="center">Materials What are different materials used for?</p> <p>Uses of materials Changing shape of materials</p>	<p align="center">Animals Why do animals choose particular habitats? Living and dead, describe habitats, basic food chains.</p>	<p align="center">Microhabitats</p>
Year Three	<p align="center">Rocks and Soils Group different rocks, how they are formed Fossils</p>	<p align="center">Human Body Skeletons and muscles</p>	<p align="center">Animals including Humans Need for right amount of nutrition</p>	<p align="center">Plants Function - including how water is transported Life cycle of plants</p>	<p align="center">Magnets Compare how magnets move on different surfaces. Group things based on magnetic properties</p>	<p align="center">Light and Shadow Need for light to see. How shadows are formed - size.</p>
Year Four	<p align="center">Living Things – Our Changing world Group living things, use classification keys. Change in environment can threaten life</p>	<p align="center">State of matter Solids, Liquids, gases Change state, Evaporation/condensation</p>	<p align="center">Sound How sound is made, travels. Pitch and volume</p>	<p align="center">Electricity Simple circuits, Switches Conductors and insulators</p>	<p align="center">Food Chains construct and interpret a variety of food chains, identifying producers, predators and prey.</p>	<p align="center">Animals including Humans – Teeth and Digestion Basic function of digestive system. Teeth.</p>
Year Five	<p align="center">Earth and Space Movement Earth, planets & moon. Night and day</p>	<p align="center">Properties and changes of materials Dissolve, separating, reversible changes. Change</p>	<p align="center">Our Changing world – Living things and their Habitats. Animal - different life cycles, reproduction in plants and animals</p>	<p align="center">Animals Including Humans How humans change with age</p>	<p align="center">Forces Gravity, air/water resistance, friction. Levers, pulleys and gears</p>	

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		that produce new materials				
Year Six	Living Things and Their Habitats Classifications including microorganisms, plants and animals.	Circulatory System Human circulatory system. Exercise, drugs and lifestyle.	Evolution and Inheritance Fossil Offspring different to parents. Animal adaptation—Evolution	Light Travels in straight lines, How light enables us to see. How shadows are formed - shape	Electricity brightness of lamp, volume of buzzer. symbols circuit diagrams.	Animals including Humans Impact of diet, exercise, drugs and lifestyle on their body function. How nutrients and water are transported.