



Science Curriculum 2023/24

Nursery						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	All about Me and Autumn	Traditional Tales	Vehicles, materials and people who help us	Growing and Changing	Under the Sea, holidays and pirates	Animals and Habitats
Working scientifically	<ul style="list-style-type: none"> • Begin to engage in open-ended activity and exploring with adult support • Talk through a problem with an adult and how they can overcome this • Talk to an adult about the resources that they would like to use. • Follow adults' lead with 'I wonder...' questions • Begin to handle tools safely such as scissors 					
Physics	<ul style="list-style-type: none"> • Explore and talk about different forces they can feel 		<ul style="list-style-type: none"> • Talk about the differences between materials and changes they notice • Explore natural materials, indoors and outside. • Explore how things work 	<ul style="list-style-type: none"> • Explore and talk about the forces they can feel • Use all senses in hands on exploration 		
Biology	<ul style="list-style-type: none"> • Name common body parts – head, arms, hands, legs feet and neck 	<ul style="list-style-type: none"> • Plant seeds and care for growing plants • Begin to understand the need to respect and care for the natural environment 		<ul style="list-style-type: none"> • Talk about when it is icy and notice that this is when it is very cold. • Watch seeds and plants grow. 	<ul style="list-style-type: none"> • Explore and respond to different natural phenomena in their setting and on trips. 	<ul style="list-style-type: none"> • Observe animal lifecycles such as caterpillars hatching and becoming butterflies • Discuss animals of their choice, focussing on what they look like
Chemistry			<ul style="list-style-type: none"> • Explore the melting of ice (ice cubes/ice lollies) • Cook and explore combining, heating and cooling ingredients. 			



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Vocab	Autumn, Healthy, food, toothbrush, teeth, sleep, head, arms, hands, legs, feet, neck	Plant, seeds, grass, soil	Spring, Materials, different, same, change	Senses, plant, grow	Summer, Sea, sealife, animal,	Egg, frogspawn, tadpole, frog, caterpillar, butterfly
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Reception						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	My World	Celebrations	The world around me	Growing and Changing	Under the Sea	Animals and Habitats
Working scientifically	<ul style="list-style-type: none"> • Engage in open-ended activity playing and exploring • Take a risk, engage in new experiences and learn by trial and error • Find ways to solve problems/ find new ways to do things/test their ideas • Handle equipment and tools effectively • Choose the resources they need for their chosen activity • Create simple representations of events, people and objects • Answer how and why questions about their experiences 					
Physics	<ul style="list-style-type: none"> • Explore making sounds in a variety of different ways. 	Notice light and dark places in the immediate environment <ul style="list-style-type: none"> • Begin to compare light and dark • Look at shadows and the shapes that they make 	<ul style="list-style-type: none"> • Ongoing discussions of different materials that the children use in their learning and play • Learn the term waterproof and identify plastic and metal 	<ul style="list-style-type: none"> • Understand some important processes and changes in the natural world around them, including the seasons. 	<ul style="list-style-type: none"> • Explore the natural world around them, making observations and drawing pictures of animals and plants. 	
Biology	<ul style="list-style-type: none"> • Explore how their own bodies move. • Name common body parts – elbows, shoulders, ankles, back, fingers and toes 	<ul style="list-style-type: none"> • Describe what they see, hear and feel whilst outside. 	<ul style="list-style-type: none"> • Observe plants and trees in their immediate environment and begin to talk about what they need to grow. • Know some similarities and differences between the natural world around them and contrasting environments. 	<ul style="list-style-type: none"> • Talk about changes that happen in their immediate environment in different seasons 	<ul style="list-style-type: none"> • Explore the natural world around them making observations and drawing pictures of animals and plants 	<ul style="list-style-type: none"> • Describe animals that they have seen in stories, videos or in person, focusing on what they eat and where they live • Discuss animals of their choice, focussing on what they look like, what they eat and where they live. • Explore the natural world around them, making observations and drawing pictures of animals and plants.



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Chemistry				<ul style="list-style-type: none">• Understand important processes and changes including states of matter.	<ul style="list-style-type: none">• Explore ice and other substances melting and solidifying.	
Vocab	see, hear, feel, smell, taste, difference, compare,	safe, danger, light, dark, shadow, sun	plant, grow, seed, egg, chick	healthy, exercise, toothbrush, teeth, head, arm, leg, foot, hand, hair, sleep	animal, polar,	habitats, camouflage, rainforest,