

Science Curriculum Map

	Nursery	Reception	Year 1	Year 2
Autumn	<p>Nursery Rhymes / Celebrations Local walk for signs of Autumn Using magnifiers to search for insects Looking at ladybirds, life cycles Facts about spiders – what makes them special, why people are scared of them Harvest Day and night Weather Science Week – Handa’s Surprise Feel, taste and smell the fruit from the story. Which animals ate which fruit? Cosmic yoga and excise circuit to raise the heartbeat. Move like the story animals.</p>	<p>Three Little Pigs Facts about pigs and wolves Habitats of pigs and wolves Wolf breath – 3 Little Pigs house prediction What changes and growth are happening in the natural world Autumn walk with iPads Autumn colour tissue paper trees Seasons of the year Healthy eating, cleaning teeth, washing hands Mouldy bread investigation</p>	<p>Ourselves / Senses / The Natural World To learn that we have five senses which allow us to find out about and develop a greater understanding of the world. To know which body part relates to each sense. To learn that humans have bodies with similar parts, and to learn the body part names. To make observations and comparisons of height and their bodies To collect and organise data and present it in a chart To make a prediction and draw conclusions from an investigation Seasonal changes To observe changes across the four seasons and the weather associated with autumn To explore the natural world in the school’s nature area Animals To Identify and name a variety of common animals, including fish, amphibians, reptiles, birds and mammals. To identify and name a variety of common animals that are carnivores, herbivores and omnivores. To describe and compare the structure of a variety of common animals. Forest School/Woodland Trust activities</p>	<p>Animal including humans Grouping foods and the healthy food plate How to care for a baby Importance of exercise and types of exercise Importance of dental hygiene Health and hygiene including washing hands and hair, keeping clean, germ Investigate the effect of different substances on our teeth Investigate how the weather changes across the seasons and isn’t defined by the season – focus on rain</p>

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Spring	<p>Jungle Animals / Growing</p> <p>Comparing the local environment to a jungle environment</p> <p>Signs of winter</p> <p>Facts about hibernating creatures.</p> <p>Tasting Chinese food using chopsticks</p> <p>Spring walk to look for signs of new life</p> <p>Sowing cress seeds – life cycles</p> <p>Egg Investigation</p> <p>New life: lambs</p>	<p>The Gingerbread Man</p> <p>Ingredients for gingerbread man – separately and when combined</p> <p>Smelling spices</p> <p>Gingerbreadman in oil, water and milk</p> <p>Signs of winter and spring</p> <p>Planting seeds</p> <p>Materials</p> <p>Snow and ice investigation</p> <p>Ice skating penguins</p>	<p>Animals, including humans</p> <p>To identify and name a variety of common animals with a focus on birds.</p> <p>RSPB Bird Watch</p> <p>Migration</p> <p>Diets and making bird feeders</p> <p>Seasonal changes</p> <p>To observe changes across the four seasons with a focus on winter</p> <p>To observe and describe weather associated with the seasons and how day length varies. Use iPads and Logiboxes to take photos and temperature readings</p> <p>Weekly weather chart</p> <p>Rain investigation</p> <p>Everyday Materials</p> <p>To distinguish between an object and the material it is made from.</p> <p>To identify and name a variety of everyday materials including wood, plastic, glass, metal, water and rock.</p> <p>To describe the simple physical properties of a variety of everyday materials.</p> <p>To compare and group together a variety of everyday materials on the basis of their simple physical properties.</p> <p>Umbrella investigation</p> <p>Forest School/Woodland Trust activities</p>	<p>Identify materials and their properties (including wood, metal, plastic, glass, brick, rock, paper and cardboard)</p> <p>Compare suitability of materials by packing a rucksack to take to Antarctica (including wood, metal, plastic, glass, brick, rock, paper and cardboard)</p> <p>Frostbite investigation – which material is most suitable to prevent frostbite?</p> <p>What effect is plastic having on our oceans? Why is it important to reuse and recycle?</p> <p>Research invention of new materials e.g. Charles Martin Hall (aluminium) – using different resources to conduct research.</p> <p>Investigate how the weather changes across the seasons and isn't defined by the season – focus on rain</p> <p>Plants</p> <p>Growing seeds and bulbs (nasturtium seeds, narcissus bulbs) including planting, care, observation and description of growth:</p> <ul style="list-style-type: none"> - growth investigation (effect of water / no water, light / no light, hot / cold temperature) - seed / bulb diaries - plant survival in Antarctica / Native America

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Summer	Sand / Water Signs of summer & seasonal facts What you can find in a pond What you can find in a rock pool Compare the local environment to a seaside environment Floating and sinking Uses of water Sorting sea and river creatures Frozen and melted Investigating wet/dry/damp sand Frog life cycle	The Little Red Hen Facts about hens and chicks Life Cycle of a chick Observations of chicks hatching and growing Seed dispersion 'The Tiny Seed' by Eric Carle Tasting bread from European countries Harvesting crops long ago Investigating seeds using magnifying glasses Planting seeds and herbs Nature table -signs of spring and summer Floating and sinking Facts about windmills	Seasonal Change Variation of length of the day Identify changes in trees and clothing worn from spring to summer Seasonal weather Use iPads and Logiboxes to take photos and temperature readings Weekly weather chart Staying safe in the sun Growing and Lifecycles Plants To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees To identify and describe the basic structure of a variety of common flowering plants, including trees To identify and name a variety of common wild and garden plants, including deciduous and evergreen trees To identify and describe the basic structure of a variety of common flowering plants, including trees. The Weather To observe changes across the four seasons. Focus: Summer To observe and describe weather associated with the seasons and how day length varies Forest School/Woodland Trust activities	Environments and Habitats Habitats Learn that there are different kinds of plants and animals in the immediate environment and to treat animals and the environment with care and sensitivity Recognise hazards in working with soil Observe and make a record of animals and plants found Present results in a variety of ways including in a table Learn that there are differences between local habitats To make predictions about the animals and plants found in different local habitats and to investigate these Use drawings to present results and make comparisons saying whether their predictions were supported Learn that flowering plants produce seeds. To turn ideas of their own, about what plants need to begin to grow, into a form that can be tested. Observe and make a day-by-day record of observations Use the results to draw a conclusion about what seeds need to begin to grow and decide whether this is what they expected Learn that seeds produce new plants Garden / pond/ churchyard