

St. Michael's Nursery and Infant School
Science Progression Map 2021-2022

		EYFS	Year 1	Year 2
Asking simple questions	Plants	<ul style="list-style-type: none"> • What plants can you see? • Observe and discuss plants in our local environment. 	<ul style="list-style-type: none"> • What is a plant? • How many different types of plants are there? • How many different types of trees are there? 	<ul style="list-style-type: none"> • What do plants need to survive? • Do plants always come from a seed? • How do plants grow?
	Animals, including Humans	<ul style="list-style-type: none"> • Use senses to explore the world around you. 	<ul style="list-style-type: none"> • What do animals eat? • How many different animal groups are there? 	<ul style="list-style-type: none"> • What do animals need in order to survive? • What do humans need in order to stay healthy?
	Materials	<ul style="list-style-type: none"> • Discuss different materials in our local environment. What does the material feel like? 	<ul style="list-style-type: none"> • What are objects made from? • Use senses to explore everyday materials and their properties. 	<ul style="list-style-type: none"> • Which material is the best to use for a particular purpose? • How can an object be changed?
	Seasonal Changes	<ul style="list-style-type: none"> • Ask questions about what is observed during the seasons as they happen. 	<ul style="list-style-type: none"> • What season is it, currently? • What is the weather like? • How has the weather changed? • How many hours of sunlight are there, currently? Why does this happen? 	
	Living Things and their Habitats			<ul style="list-style-type: none"> • What does habitat mean? • What does microhabitat mean? • How do animals obtain their food from plants and other animals?

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Performing Simple Tests	Plants	Observations are used, rather than testing.		<ul style="list-style-type: none"> Perform tests to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.
	Animals, including Humans	Observations are used, rather than testing.		
	Materials	<ul style="list-style-type: none"> Use different materials for different purposes during play. 	<ul style="list-style-type: none"> Explore and experiment with a wide variety of materials. Perform simple tests to explore questions, for example: 'What is the best material for an umbrella?' 	<ul style="list-style-type: none"> Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Identify and compare the suitability of a variety of everyday materials.
	Seasonal Changes	Observations are used.		
	Living Things and their Habitats			Observations are used.
Observing closely, using simple equipment	Plants	<ul style="list-style-type: none"> Observe plants, growing from seeds. 	<ul style="list-style-type: none"> Identify and describe the basic structure of a variety of common flowering plants, including trees. Observe the growth of plants/vegetables the children have grown. 	<ul style="list-style-type: none"> Observe and describe how seeds and bulbs grow into mature plants.

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	Animals, including Humans	<ul style="list-style-type: none"> Using the local environment, explore the world around them. 	<ul style="list-style-type: none"> Use their observations at first hand or through videos and photographs. 	<ul style="list-style-type: none"> Use their observations to compare and contrast animals at first hand or through videos and photographs.
	Materials	<ul style="list-style-type: none"> Observe different materials during play and when exploring the world around them. 	<ul style="list-style-type: none"> Distinguish between an object and the material from which it is made. 	<ul style="list-style-type: none"> Identify and compare the suitability of a variety of everyday materials through use of observations. Explore how some objects can be changed by e.g. squashing, bending, twisting and stretching.
	Seasonal Changes	<ul style="list-style-type: none"> Observe and discuss the weather as the seasons change. 	<ul style="list-style-type: none"> Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies. 	
	Living Things and their Habitats			<ul style="list-style-type: none"> Explore things that are living, dead and never lived.
		EYFS	Year 1	Year 2
	Plants	<ul style="list-style-type: none"> Using the local environment, explore the world around them. 	<ul style="list-style-type: none"> Identify and name a variety of common wild and garden 	<ul style="list-style-type: none"> Identify what plants need in order to grow and stay healthy.

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Identification and Classification		Observations will take place.	plants, including deciduous and evergreen trees.	
	Animals, including Humans	<ul style="list-style-type: none"> Identify and classify animals during play, for example farm animals, jungle animals, fish). 	<ul style="list-style-type: none"> Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets). 	<ul style="list-style-type: none"> Identify and classify animals during the different stages of their life cycle.
	Materials	<ul style="list-style-type: none"> Using the local environment, explore the world around them. 	<ul style="list-style-type: none"> Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. 	<ul style="list-style-type: none"> Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
	Seasonal Changes	<ul style="list-style-type: none"> Explore the world around them, identify what the weather is like. 	<ul style="list-style-type: none"> Identify and describe weather associated with the seasons. 	
	Living Things and their Habitats			<ul style="list-style-type: none"> Identify that most living things live in habitats to which they are suited and describe

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				<p>how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.</p> <ul style="list-style-type: none"> Identify and name a variety of plants and animals in their habitats, including microhabitats.
<p>Using observations and ideas, to suggest answers to questions</p>	Plants	<ul style="list-style-type: none"> Plants seeds and care for them. 	<ul style="list-style-type: none"> Through observations, answer questions about plants growing in their habitat. 	<ul style="list-style-type: none"> Observe similar plants at different stages of growth; setting up a comparative test to show that plants need light and water to stay healthy. Explain how animals obtain their food from plants and other animals.
	Animals, including Humans	<ul style="list-style-type: none"> Discuss where some animals live. 	<ul style="list-style-type: none"> Using observations to compare and contrast animals at first hand or through videos and photographs, suggesting answers to questions they have. 	<ul style="list-style-type: none"> Explain that humans must maintain a healthy diet, hygiene and exercise to remain healthy.

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	Materials	<ul style="list-style-type: none"> Recognise different materials in the world around them and through play-based activities. 	<ul style="list-style-type: none"> Discuss a variety of materials and describe their properties, by exploring using their senses. 	<ul style="list-style-type: none"> Explain the suitability of materials by comparing objects.
	Seasonal Changes	<ul style="list-style-type: none"> Using their senses explore the world around them and through play-based activities. 	<ul style="list-style-type: none"> Describe the changes in the environment during the seasons. 	
	Living Things and their Habitats			<ul style="list-style-type: none"> Ask and answer questions about the local environment to identify and study a variety of plants and animals within their habitat and observe how living things depend on each other, for example, plants serving as a source of food and shelter for animals.
Gathering and recording data to help in answering questions	Plants	<ul style="list-style-type: none"> Observe plants and draw a picture. 	<ul style="list-style-type: none"> Record how plants have changed overtime, throughout the different seasons. Timing and observing height of plants and rate at which they grow. 	<ul style="list-style-type: none"> Observe and record the growth of a variety of plants as they change over time. Set up a comparative test and record the changes over time, to show what plants need

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				in order to stay healthy.
	Animals, including Humans	<ul style="list-style-type: none"> Explore the world around them through play-based activities. 	<ul style="list-style-type: none"> Complete a checklist of animals in the local environment. 	<ul style="list-style-type: none"> To recognise growth, they will learn about life cycles and draw the life cycle of particular animals.
	Materials	<ul style="list-style-type: none"> Explore the world around them through play-based activities. 	<ul style="list-style-type: none"> Group materials based on their properties. 	<ul style="list-style-type: none"> Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
	Seasonal Changes	<ul style="list-style-type: none"> Explore the world around them through play-based activities. 	<ul style="list-style-type: none"> Completing a chart/table about the weather. 	
	Living Things and their Habitats			<ul style="list-style-type: none"> Sort and classify things according to whether they are living, dead or were never alive, and record their findings using charts.