

Science: Long Term Plan

	Nursery					
	Autumn		Spring		Summer	
	1.1	1.2	2.1	2.2	3.1	3.2
	<p>Begin to make sense of my own life story – To develop a positive attitude about myself - To talk about what I can see introducing new vocabulary –</p> <p>To understand and discuss the similarities of different families and communities</p>	<p>To know there are different countries in the world – family history – To celebrate Diwali and Christmas- To explore collections of materials, talking about similarities and differences – To understand the terms float and sink - Making playdough</p>	<p>To understand we respect and care for the natural environment –</p> <p>To explore forces and how they feel – push and pull - Making start biscuits</p>	<p>To talk about changes they notice – melting, cooking and freezing. To investigate light and dark relating to change</p> <p>To explore and learn about the month of Ramadan</p>	<p>To celebrate Eid – celebrating a religious event- To take part in Eid celebrations</p> <p>To plant a seed and make simple observations.</p> <p>To understand the key features of a life cycle – ‘A caterpillar to butterfly’.</p>	<p>To show an interest in different occupations relating to people who help us</p> <p>To explore the role of occupations through role play and stories- book focus of the week.</p> <p>To talk about the people who help us using new vocabulary</p> <p>To focus on the occupations</p>
Reception						
	Autumn		Spring		Summer	
	1.1	1.2	2.1	2.2	3.1	3.2

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	<p>To be able to make sense of my own life story To talk about members of their immediate family Identify similarities between themselves and others, among families and communities Learn about Black History Month Understand how to be safe online Know how to operate simple equipment</p>	<p>To recognise that different people celebrate special times in different ways. To know how to simple equipment Explore the properties of materials Explore their local area To understand that some places are special to members of the community To understand the effect of changing seasons on the world around them Draw information from a simple map Describe environments using knowledge from stories. Understand that some places are special to members of their community. -</p>	<p>To be able to identify similarities between themselves and among families Draw information from a simple map. To know how to simple equipment To begin to understand the need to respect and care for the natural environment and all living things (NW)</p>	<p>Name and identify animals and their habitats Explore the natural world around them. Explore what plants need to grow Plant sunflower seeds and talk about how plants grow Understand that some places are special to members of their community To make observations of plants.</p>	<p>Able to talk about past and present events in their own lives and lives of their family members Show interest in different occupations and ways of life Play with a range of materials to learn cause and effect. Understand the importance of road safety</p>	<p>Know that there are many countries around the world, with different cultures and communities Exploring what has a negative/positive impact on the environment LO: To name and sort land and ocean animals To recognise some environments that are different from the one in which they live To talk about key events from the past and present Use the video recording feature to create their own video</p>
Year 1						
	Autumn		Spring		Summer	
	1.1	1.2	2.1	2.2	3.1	3.2

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	<p>Seasonal changes</p> <p>Animals including humans:</p> <ul style="list-style-type: none"> - common animals. <p>Science garden</p>	<p>Animals including humans:</p> <ul style="list-style-type: none"> -human body. 	<p>Seasonal changes</p> <p>Everyday materials:</p> <ul style="list-style-type: none"> - objects and materials. 	<p>Everyday materials:</p> <ul style="list-style-type: none"> - objects and materials. 	<p>Seasonal changes</p> <p>Plants:</p> <ul style="list-style-type: none"> -flowering plants, including trees. <p>Science garden</p>	<p>Light:</p> <ul style="list-style-type: none"> -light sources
Year 2						
	Autumn		Spring		Summer	
	1.1	1.2	2.1	2.2	3.1	3.2
	<p>Uses of everyday materials:</p> <ul style="list-style-type: none"> -everyday materials. 	<p>Animals including humans:</p> <ul style="list-style-type: none"> -basic needs of animals <p>Science garden</p>	<p>Living things and their habitats:</p> <ul style="list-style-type: none"> - living, dead, non-living. <p>Science garden</p>	<p>Living things and their habitats:</p> <ul style="list-style-type: none"> -habitats and how animals depend on each other. <p>Science garden</p>	<p>Plants:</p> <ul style="list-style-type: none"> -seed, bulb and mature plant growth <p>Science garden</p>	<p>Electricity and light:</p> <ul style="list-style-type: none"> -STEM project
Year 3						
	Autumn		Spring		Summer	
	1.1	1.2	2.1	2.2	3.1	3.2
	<p>Rocks:</p> <ul style="list-style-type: none"> -rocks and fossil formation. 	<p>Animals including humans:</p> <ul style="list-style-type: none"> - nutrition - skeletons and muscles 	<p>Light:</p> <ul style="list-style-type: none"> - light -seeing, dangers, shadows 	<p>Plants:</p> <ul style="list-style-type: none"> - plant parts and requirements, water transportation, life cycle <p>Science garden</p>	<p>Forces and magnets:</p> <ul style="list-style-type: none"> - magnetic forces, magnetic materials. 	<p>Forces and magnets:</p> <ul style="list-style-type: none"> - STEM project
Year 4						
	Autumn		Spring		Summer	
	1.1	1.2	2.1	2.2	3.1	3.2

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	Animals including humans: - digestive system, teeth, producers, predators and prey. Teeth bar chart	Materials: -solids, liquids or gases, change state, Evaporation, condensation in the water cycle. Melting points of chocolate bar chart	Energy (Sound): - sounds, vibrations, ear, pitch and volume. Decibels of sound	Electricity: - appliances, simple series electrical circuit,	Electricity: -complete loop with a battery, open and closed switch, conductors and insulators,	Living things and their habitats: - grouping, classification keys Tally chart to a bar chart for the animals found in the habitat Science garden
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Year 5

	Autumn		Spring		Summer	
	1.1	1.2	2.1	2.2	3.1	3.2
	Earth and Space: - movement of the Earth, and other planets, Earth's rotation Distance from Sun line graph	Animals including humans: -human growth and change. Gestation periods on a range of different sized mammals	Properties and changes of materials (1) -Everyday materials and their uses	Properties and changes of materials (2) - properties, solids, liquids, gases, filtering, sieving and evaporating. Science garden	Forces: -Impact of gravity on Earth and our lives. -Effect of resistance between moving surfaces. -levers, pulleys, gears Measuring forces and recording the water resistance into a tank of water – time taken	Living things and their habitats: -Lifecycle of different living things. -process of reproduction in plants and animals. Lifecycle of a range of animals Science garden

Year 6

	Autumn	Spring	Summer
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	1.1	1.2	2.1	2.2	3.1	3.2
	Light: -light travel, shadows Line graph – measurements of shadow sizes	Animals including humans: - human circulatory system, transportation within animals, including humans. Heart rate – resting, exercising and resting heart rate – histogram – median values	Living things and their habitats: - classification including micro-organisms, plants and animals Sampling – different habitats and tallying and graphing a range of samples of animals (pond) Science garden	Electricity: -voltage of cells, variations in how components function, recognised symbols Voltage from a range of fruit and vegetables – multimeter measurement	Evolution and Inheritance: - change over time, fossils, offspring Percentage of oxygen throughout Earth's history Science garden	Evolution and Inheritance: - how animals and plants are adapted to suit their environment, adaptation may lead to evolution. Height measurement line graph – gender split Science garden