

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

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	<b>Seasonal changes</b>  <b>Animals including humans:</b> - common animals. Science garden	<b>Animals including humans:</b> -human body.	<b>Seasonal changes</b>  <b>Everyday materials:</b> - objects and materials.	<b>Everyday materials:</b> - objects and materials.	<b>Seasonal changes</b>  <b>Plants:</b> -flowering plants, including trees. Science garden	<b>Light:</b> -light sources
	<b>Year 2</b>					
	<b>Autumn</b>		<b>Spring</b>		<b>Summer</b>	
	<b>1.1</b>	<b>1.2</b>	<b>2.1</b>	<b>2.2</b>	<b>3.1</b>	<b>3.2</b>
	<b>Uses of everyday materials:</b> -everyday materials.	<b>Animals including humans:</b> -basic needs of animals Science garden	<b>Living things and their habitats:</b> - living, dead, non-living. Science garden	<b>Living things and their habitats:</b> -habitats and how animals depend on each other. Science garden	<b>Plants:</b> -seed, bulb and mature plant growth Science garden	<b>Electricity and light:</b> -STEM project
	<b>Year 3</b>					
	<b>Autumn</b>		<b>Spring</b>		<b>Summer</b>	
	<b>1.1</b>	<b>1.2</b>	<b>2.1</b>	<b>2.2</b>	<b>3.1</b>	<b>3.2</b>
	<b>Rocks:</b> -rocks and fossil formation.	<b>Animals including humans:</b> - nutrition - skeletons and muscles	<b>Light:</b> - light -seeing, dangers, shadows	<b>Plants:</b> - plant parts and requirements, water transportation, life cycle Science garden	<b>Forces and magnets:</b> - magnetic forces, magnetic materials.	<b>Forces and magnets:</b> - STEM project
	<b>Year 4</b>					
	<b>Autumn</b>		<b>Spring</b>		<b>Summer</b>	
	<b>1.1</b>	<b>1.2</b>	<b>2.1</b>	<b>2.2</b>	<b>3.1</b>	<b>3.2</b>

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	<b>Animals including humans:</b> - digestive system, teeth, producers, predators and prey.  Teeth bar chart	<b>Materials:</b> -solids, liquids or gases, change state, Evaporation, condensation in the water cycle.  Melting points of chocolate bar chart	<b>Energy (Sound):</b> - sounds, vibrations, ear, pitch and volume.  Decibels of sound	<b>Electricity:</b> - appliances, simple series electrical circuit,	<b>Electricity:</b> -complete loop with a battery, open and closed switch, conductors and insulators,	<b>Living things and their habitats:</b> - grouping, classification keys  Tally chart to a bar chart for the animals found in the habitat Science garden
	<b>Year 5</b>					
	<b>Autumn</b>		<b>Spring</b>		<b>Summer</b>	
	<b>1.1</b>	<b>1.2</b>	<b>2.1</b>	<b>2.2</b>	<b>3.1</b>	<b>3.2</b>
	<b>Earth and Space:</b> - movement of the Earth, and other planets, Earth's rotation  Distance from Sun line graph	<b>Animals including humans:</b> -human growth and change.  Gestation periods on a range of different sized mammals	<b>Properties and changes of materials (1)</b> -Everyday materials and their uses	<b>Properties and changes of materials (2)</b> - properties, solids, liquids, gases, filtering, sieving and evaporating. Science garden	<b>Forces:</b> -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	<b>Living things and their habitats:</b> -Lifecycle of different living things. -process of reproduction in plants and animals.  Lifecycle of a range of animals  Science garden

	<b>Year 6</b>		
	<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>

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