

My Science Learning Journey

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	<p style="text-align: center;">Offered as part of daily 'Continuous Provision'—following children's interests</p> <p style="text-align: center;">Looking at all areas of science throughout year, highlighting changes when in the Outside Area and Eco Area</p>					
	<u>Animals including Humans</u> <ul style="list-style-type: none"> Our body 	<u>Seasons</u> <ul style="list-style-type: none"> Season of Autumn 	<u>Living things and their Habitats</u> <ul style="list-style-type: none"> Habitats in the Arctic and Antarctica. <u>Seasons:</u> <ul style="list-style-type: none"> Season of Winter 	<u>Living things and their Habitats</u> <ul style="list-style-type: none"> African Plains <u>Seasons:</u> <ul style="list-style-type: none"> Season of Spring 	<u>Living things and their Habitats</u> <ul style="list-style-type: none"> The Rainforest 	<u>Animals including Humans</u> <ul style="list-style-type: none"> Being Healthy <u>Seasons:</u> <ul style="list-style-type: none"> Season of Summer
Year 1	<u>Seasonal Changes</u> <ul style="list-style-type: none"> To be observed throughout the entire year Observe changes across the four seasons Describe weather associated with the seasons and how day length varies. 		<u>Everyday Materials</u> <ul style="list-style-type: none"> Compare and group together a variety of everyday materials. Identify and name objects and the materials from which they are made. 	<u>Animals including Humans</u> <ul style="list-style-type: none"> Identify characteristics specific to mammals, birds, reptiles, amphibians and fish Recall the diets of carnivores, herbivores and omnivores. 	<u>Plants</u> <ul style="list-style-type: none"> Identify and name a variety of common wild and garden plants including deciduous and evergreen trees Describe the basic structure of common flowering plants 	
Year 2	<u>Animals including Humans</u> <ul style="list-style-type: none"> Learn the basic needs of animals for survival, as well as the importance of exercise and nutrition for humans. Compare and describe the life cycle of a human. 		<u>Plants</u> <ul style="list-style-type: none"> Observe how plants grow and what they need to grow. Plant seed and observe how plants need water, light and a suitable temperature to grow and stay healthy. 	<u>Uses of Everyday Materials</u> <ul style="list-style-type: none"> Identify and compare the suitability of materials like wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Change materials by squashing, bending, twisting and stretching. 	<u>Living Things and their Habitats</u> <ul style="list-style-type: none"> Identify and name a variety of plants and animals in their habitats, including microhabitats Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain Identify and name different sources of food. 	
Year 3	<u>Animals including Humans</u> <ul style="list-style-type: none"> Learn about the human skeleton Identify key bones and explore how muscle changes result in movement. Balanced diet 		<u>Rocks</u> <ul style="list-style-type: none"> Look at appearance and physical properties of rocks Compare and group different rock samples Learn about how fossils and soils are formed. 	<u>Forces and Magnets</u> <ul style="list-style-type: none"> What is friction? How do magnets work? 	<u>Plants</u> <ul style="list-style-type: none"> Look at the life cycle of a flowering plant Investigate the structure and function of the parts of a flowering plant. 	<u>Light</u> <ul style="list-style-type: none"> Look at light sources Reflection and shadow formation.
Year 4	<u>Living in Environments</u> <ul style="list-style-type: none"> Make classification keys. Look at how habitats change 	<u>Eating and Digestion</u> <ul style="list-style-type: none"> Study the key organs in the digestive system. Look at types of human teeth Investigate factors that impact our dental health. 	<u>States of Matter</u> <ul style="list-style-type: none"> Investigate the properties of solids, liquids and gases Look at the different states of matter. Water cycle 		<u>Sound</u> <ul style="list-style-type: none"> How are sounds made? Look at pitch, volume and vibrations 	<u>Electricity</u> <ul style="list-style-type: none"> Build circuits Investigate conductors and insulators
Year 5		<u>Properties and Changes of Materials</u> <ul style="list-style-type: none"> Make different mixtures and look at how to separate Design and create a water filter, sieve soil and evaporate solutions. 	<u>Forces</u> <ul style="list-style-type: none"> Learn about gravity, friction, air resistance and water resistance Build the most effective pulley system. 	<u>Earth and Space</u> <ul style="list-style-type: none"> Learn about rotation and day and night Learn about the planets and the moon What are satellites? 	<u>Living Things and their Habitats</u> <ul style="list-style-type: none"> Compare the life cycles of plants, mammals, birds, amphibians and insects. Investigate asexual reproduction in plants. 	<u>Animals including Humans (Linked to PSHE)</u> <ul style="list-style-type: none"> Learn about human development and changes. Describe how puberty affects girls and boys
Year 6	<u>Animals including Humans</u> <ul style="list-style-type: none"> Learn about the heart and circulatory system 	<u>Light</u> <ul style="list-style-type: none"> Learn how light travels in straight lines Investigate shadows and reflections. 	<u>Evolution and Inheritance</u> <ul style="list-style-type: none"> Look at inherited and environmental characteristics Evolution of fossils 	<u>Living Things and their Habitats</u> <ul style="list-style-type: none"> Linnaeus system of classification of animals. Learn the difference between Vertebrates and invertebrates Classify Microorganisms 	<u>Electricity</u> <ul style="list-style-type: none"> Develop their knowledge of circuits. Look at the effects of changing voltage and how switches contribute to different devices 	

Comparative / fair testing

Changing one variable to see its effect on another, whilst keeping all others the same.



Research

Using secondary sources of information to answer scientific questions.



Observation over time

Observing changes that occur over a period of time ranging from minutes to months.



Pattern-seeking

Identifying patterns and looking for relationships in enquiries where variables are difficult to control.



Identifying, grouping and classifying

Making observations to name, sort and organise items.



Problem-solving

Applying prior scientific knowledge to find answers to problems.

