

Science Long Term Plan

	Autumn 1 6.5 weeks	Autumn 2 7.5 weeks	Spring 1 5.5 weeks	Spring 2 7 weeks	Summer 1 5 weeks	Summer 2 7 weeks
Nursery & Reception	Children develop their understanding of the world through play and by exploring a variety of activities inside and outside of the classroom. Teachers help children to notice similarities, differences, patterns and changes in the world around them. They also plan experiences that follow children's interests and support their exploration of the environment.					
Year 1	Materials Name, describe and sort everyday materials.	Human body Label the basic parts of the human body including senses.		Animals Identify and name a variety of common animals. Carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals.	Plants Name a variety of common wild and garden plants. Describe the basic structure of plants.	
Ongoing: Seasonal Change						
Year 2	Take care Basic needs of humans. The importance of healthy eating and exercise.	Materials Suitability of everyday materials. Identify that some materials can be changed by squashing, bending, twisting or stretching.		Plants Find out what plants need to grow. Describe how seeds and bulbs grow into mature plants? Growing up – Animals/ humans have offspring.	Habitats Living/non-living; how animals and plants are adapted to their habitats; food chains.	
Year 3	Are you attractive enough? Compare how things move on different surfaces. Explore the properties of magnets. Describe magnets as having two poles.	How can Usain Bolt move so quickly? Nutrition. Skeletons and muscles.	How was the Earth formed? Compare and group different types of rocks. Fossils. Soils.	How did the blossom become an apple? Describe the functions of different parts of flowering plants. Find out what plants need to grow and live. Lifecycle of plants. Water transportation in plants.	How did the blossom become an apple? Describe the functions of different parts of flowering plants. Find out what plants need to grow and live. Lifecycle of plants. Water transportation in plants.	How far can you throw your shadow? Light and dark. Reflection of light. Look at the dangers light from the sun can pose. Explore light and shadows. Rocks

Year 4		<u>Flashing Lights</u> Investigate circuits. Identify common appliances that run on electricity.	<u>What happens to the food we eat?</u> Digestion and teeth.	<u>What does sound look like?</u> Investigate how sounds are made. Investigate vibrations, pitch and volume <u>Where does all the food go?</u> Food chains.	<u>Where is water?</u> Solids, liquids and gases. Changes of state. Water cycle.	<u>A bug's life</u> Grouping living things.
	<u>What's Living Out There?</u> Grouping living things. Environmental change.					
Year 5	<u>Forces</u> Gravity. Air resistance, water resistance and friction. Levers, pulleys and gears.			<u>Life cycles</u> Describe the differences between life cycles of different animals. Reproduction in plants and animals.	<u>Changes in materials</u> Investigate, compare and group materials by a variety of properties, including solubility, conductivity and transparency. Separate materials. Reversible and irreversible changes.	<u>Space</u> Investigate the Solar system and the movement of planets and the moon.
Year 6	<u>Heartbeat</u> Circulatory system. Transport of nutrients and water. Impact of diet, drugs, lifestyle on health.			<u>Survival of the fittest</u> Inheritance, adaption, evolution and classification.		<u>Lights, camera, action!</u> Light and shadows. Electricity.