

# Mersey Park Primary School: Science Curriculum



	Foundation Stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Autumn 1</b>	<p><b>Animals including Humans:</b> To make observations of animals and plants and explain why some things occur, and talk about changes</p> <p><b>Materials:</b> To know about similarities and differences in relation to places, objects, materials and living things</p>	<p><b>Seasonal Changes:</b> To know the four seasons and describe how the weather can be different</p> <p><b>Animals including humans:</b> To name different parts of the body including those used for our five senses</p>	<p><b>Forces:</b> <i>To compare and describe how different things move (NS)</i></p>	<p><b>Animals including Humans:</b> To explain why we need to food to keep us alive To name and locate key bones and muscles in the body</p>	<p><b>Animals including Humans:</b> To explain the parts of the digestive system To know the different types of teeth To describe, using scientific vocabulary, a variety of food chains</p>	<p><b>Earth and Space:</b> To describe the movement of Earth, Moon and Sun and their relationship to each other and other planets</p>	<p><b>Light:</b> To explain how light travels and how we see objects To describe why we see shadows</p> <p><b>Electricity:</b> To explain the effect of the number of cells on lights and buzzers in a circuit</p>
<b>Autumn 2</b>	<p><b>Seasonal Changes:</b> To talk about the features of their own immediate environment and how environments might vary from one another</p>	<p><b>Animals including humans:</b> To name and describe some common animals</p>	<p><b>Materials:</b> To describe the properties and suitability of everyday materials</p>	<p><b>Forces and Magnets:</b> To begin to describe the effect of friction To identify which materials are affected by magnets and describe why</p>	<p><b>Electricity:</b> To construct, draw, label and make predictions about simple circuits To know some good conductors and insulators</p>	<p><b>Forces:</b> To explain to effects of gravity, air resistance, water resistance and friction on objects To understand how we can use mechanisms, pulleys, gears and levers to allow a smaller force to have a greater effect</p>	<p><b>Animals including Humans:</b> To identify the different parts of the circulatory system To recognise the impact of healthy lifestyles on our body To describe how nutrients and water are transported around our body</p>
<b>Spring 1</b>	<p><b>Plants:</b> To know about similarities and differences in relation to places, objects, materials and living things To make observations of animals and plants and explain why some things occur, and talk about changes</p>	<p><b>Seasonal Changes:</b> To describe how trees and plants change through the four seasons</p> <p><b>Materials:</b> To name and describe a variety of everyday properties</p>	<p><b>Animals including humans:</b> To explain what humans and animals need to survive and the importance of looking after our bodies</p>	<p><b>Light:</b> To describe some sources and simple properties of light including shadows</p>	<p><b>Living Things and their Habitats:</b> To use classification keys to group living things</p>	<p><b>Properties and Changes of Materials:</b> To explain how to combine or separate mixtures To understand how some changes are reversible and others are non-reversible</p>	<p><b>Evolution and Inheritance:</b> To explain that the kind of living things on Earth now are different to those millions of years ago and give examples of how they have adapted</p>
<b>Spring 2</b>	<p><b>Living Things and their Habitats:</b> To know about similarities and differences in relation to places, objects, materials and living things To make observations of animals and plants and explain why some things occur, and talk about changes</p>	<p><b>Materials:</b> To group materials based on simple properties</p>	<p><b>Living Things and their Habitats:</b> To know the differences between living, dead and never lived</p>	<p><b>Plants:</b> To know the job of each part of the flower and the life cycle of the plant</p>	<p><b>Living Things and their Habitats:</b> To recognise and explain the feature different environments</p>	<p><b>Animals including Humans:</b> To describe how our bodies change as we age</p>	<p><b>Evolution and Inheritance:</b> To explain how living things produce offspring which is similar but not identical</p>
<b>Summer 1</b>	<p>To know about similarities and differences in relation to places, objects, materials and living things To make observations of animals and plants and explain why some things occur, and talk about changes</p>	<p><b>Seasonal Changes:</b> To recognise how day length varies</p> <p><b>Plants:</b> To name and describe the features of some common plants and trees</p>	<p><b>Living Things and their Habitats:</b> To describe adaptations of animals in relation to their habitats, including diet and food chains</p>	<p><b>Plants:</b> To know what different plants need to live and grow</p>	<p><b>Sound:</b> To recognise sound is made by vibrations and describe how the size of the vibrations can affect pitch and volume</p>	<p><b>Living Things and their Habitats:</b> To describe the life cycles of different animal groups</p>	<p><b>Reversible and Non-reversible Changes:</b> <i>To explain how to combine or separate mixtures To understand how some changes are reversible and others are non-reversible (Year 5)</i></p>
<b>Summer 2</b>	<p><b>States of Matter:</b> To make observations of animals and plants and explain why some things occur, and talk about changes</p>	<p><b>Plants:</b> To name and describe the different parts of flowers and trees</p>	<p><b>Plants:</b> To know what plants need to grow and stay healthy</p>	<p><b>Rocks:</b> To know how rocks and fossils are formed and group rocks according to simple properties</p>	<p><b>States of Matter:</b> To recognise the three common states of matter and understand how some materials can be changed from one to another</p>	<p><b>Living Things and their Habitats:</b> To describe how some animals and plants reproduce</p>	<p><b>Living Things and their Habitats:</b> To classify plants and animals and give reasons for their choices based on characteristics</p>