

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