



St Patrick's Catholic Primary School

Science Overview



(see [Science End-of-Year Milestones](#) document for further details)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p style="text-align: center;">Changing Materials</p> <p>Our Year 1 and 2 children will be learning about 'changing materials' this term. They will explore how materials have different properties and are therefore good for different jobs. Children will learn how twisting, bending and stretching can change materials.</p> <p>Children will learn about Harold "Doc" Egerton's bouncy ball experiment.</p>		<p style="text-align: center;">Our Living Earth</p> <p>Children will learn to identify and group plants and animals native to Britain. They will learn about fish, mammals, reptiles, birds and amphibians and how they are different. Children will be able to identify the basic needs of animals, including humans. They will explore the importance of exercise and a healthy lifestyle for humans.</p> <p>Children will learn about key biologists such as Mary Anning and Dong Zhiming.</p>		<p style="text-align: center;">Habitats and Seasonal Changes</p> <p>Children will think about the seasonal changes they have observed over the year, and how the length of the days varies. They will be able to identify how most living things are suited to the habitats that they live in. Children will explore food chains, learning about how animals get their food from plants and other animals.</p> <p>Children will learn about important meteorologists and inventors such as John Dalton and Daniel Fahrenheit</p>	
Year 2						
Year 3	<p style="text-align: center;">Electricity</p> <p>Children will learn about static electricity and the structure of atoms, to support their understanding of electrons flowing from a battery around a circuit. They will explore different kinds of circuits, components and make their own working switches. Children will also investigate the relationship between electricity and magnetism, finding out about how compasses act differently around electrical items.</p> <p>The children will design and make their own burglar alarms towards the end of term, applying their knowledge and understanding of electrical circuits in a working model.</p> <p>Children will learn about key physicians such as Nikola Tesla and Michael Faraday.</p>		<p style="text-align: center;">Geology, Rocks and Mixtures</p> <p>KS2 will discover how the Earth and everything on it is made from solids, liquids and gases. They will compare and classify objects based on their properties. Children will learn how some materials can dissolve in a liquid and later be recovered from the solution, and how other mixtures can be separated.</p> <p>They will learn about the water cycle and how clouds are actually made from gases! Children will explore endothermic and exothermic reactions, as well as reversible and irreversible reactions.</p> <p>Later in the term, they explore what the Earth is made from, exploring igneous, sedimentary and metamorphic rocks and how fossils are formed.</p> <p>Children will learn about key geologists such as Janet Vida Watson and Alfred Wegner.</p>		<p style="text-align: center;">Evolutions and Inheritance</p> <p>In this fascinating unit children will learn about and review their knowledge of habitats, biomes and conditions required for life. They will start to consider how life has changed over time as conditions on our planet have also changed. They will learn how life forms have been classified into kingdoms, and will start using classification keys to identify species. They will explore flowering and non-flowering plants from the plant kingdom, focusing on the process of pollination for reproduction. They will also investigate how some animals and insects reproduce, making life cycles to demonstrate their understanding. Children will apply the concept of food chains to a variety of habitats. KS2 children will learn about the theory of evolution and how Charles Darwin discovered it.</p>	
Year 4						
Year 5						
Year 6						