



St Joseph's Catholic Primary School Subject Yearly Overview - Science

Year Group	Autumn Term	Spring Term	Summer Term
EYFS	<p>Ask questions about the world around them. Predict what might happen whilst outside. Explore a range of materials, including natural materials. Understand the effect of changing seasons on the natural world around them. Learn about how to take care of themselves.</p> <p>Ask questions about the world around them. Predict what might happen. Explore the natural world around them. Describe what they see, hear and feel whilst outside. Explore a range of materials, including natural materials. Understand the effect of changing seasons on the natural world around them. Learn about how to take care of themselves.</p>		
Year 1	<p>Animals, Including Humans Children will name, draw and label a range of parts of the human body as well as learning about the 5 senses. They will also identify and name a range of animals, thinking about what they eat and making comparisons.</p>	<p>Plants Children will identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. They will learn about the structure of a plant and name the different parts.</p>	<p>Everyday Materials Children will learn about a range of materials that objects all around them are made from. They will describe the materials and think about their purpose, for example, why is glass used to make windows?</p>
	<p style="text-align: center;">Seasonal Change Throughout the year, children will observe changes across the 4 seasons. They will think about how the weather changes as well as the varying day lengths.</p>		
Year 2	<p>Animals, Including Humans Children will think about animals and humans and how babies grow into adults. They find out what animals and humans need to survive such as water, food and</p>	<p>Use of Everyday Materials Moving on from their learning in Year One, children will identify and compare different materials and their suitability for particular uses. They will also explore how</p>	<p>Plants Children will explore plants further, observing and describing how seeds and bulbs grow. They will find out about what plants need to grow and stay healthy.</p>



	<p>air. The important of exercise and different types of food will also be explored.</p>	<p>some materials can be changed by squashing, bending, twisting and stretching.</p>	<p>Living Things and their habitats Children will learn about living things living in habitats that they are suited to, and how the habitats provide the basic things that they need. They will also think about how animals get their food from plants and other animals, finding out about simple food chains.</p>
<p>Year 3</p>	<p>Rocks In this unit. children will compare and group different kinds of rocks based on their appearance and physical properties. They will use simple terms to describe how fossils are formed.</p> <p>Animals, Including Humans After learning about what humans need to survive in Year 2, children will build on this, learning about the type of nutrition humans need and where they get it from. They will also find out all about the human skeleton.</p>	<p>Forces & Magnets Children will compare how things move on different surfaces. They will explore and observe magnets and how they attract or repel each other and attract some materials but not others. Using this knowledge, they will make predictions on whether magnets will attract or repel each other.</p>	<p>Plants Children will identify and describe the functions of different parts of plants, for example, roots, stem, leaves and so on. They will explore the requirements of plants for life and growth, such as air, light, water etc. During this unit children will also explore the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</p> <p>Light Children will recognise that they need light in order to see and that light is reflected from surfaces.</p>



			They will consider ways to protect their eyes from the sun as this can be dangerous. There will be opportunities to explore and investigate how shadows are formed and to find patterns in the way that the size of shadows changes.
Year 4	<p>Animals, Including Humans To build on their learning about the human body and what it needs, children will find out about and describe the basic parts of the human digestive system. They will also identify different types of teeth and their functions. Knowledge of food chains will be developed as they find out about producers, predators and prey.</p> <p>States of Matter Children will explore solids, liquids and gases, observing changes in states when materials are heated or cooled. They will also identify the part played by evaporation and condensation when learning about the water cycle.</p>	<p>Electricity This unit begins with children identifying appliances that run on electricity. They will construct a simple series circuit, identifying and naming the basic parts including cells, wires, bulbs and so on. Children will use their knowledge of simple series circuits to identify whether or not a lamp will light. They will also find out about conductors and insulators.</p> <p>Sound Children will identify how sounds are made, recognising that vibrations from sounds travel to the ear. They will explore pitch, volume and recognise what happens to the sound as you get</p>	<p>Living Things and Their Habitats Children will use classification keys to help group, identify and name a variety of living things in the local and wider environment. They will recognise that environments can change and that these changes can sometimes pose dangerous to living things.</p>



		further away from the sound source.	
Year 5	<p>Earth and Space Children will describe the movement of the Earth and other planets relative to the sun in the solar system as well as the movement of the moon relative to the Earth. They will use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.</p> <p>Animals, Including Humans This unit focuses on describing the changes as humans develop to old age.</p>	<p>Forces Children will learn about the force of gravity and identify the effects of air resistance, water resistance and friction, that act between moving surfaces. They will recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.</p>	<p>Properties and Changes of Materials Moving on from previous learning about materials, children will compare and group everyday materials based on their properties. They will explore dissolving and use their knowledge of solids, liquids and gases to decide how mixtures might be separated. Children will consider if changes of state are reversible or irreversible</p> <p>Living Things and Their Habitats Children will describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. They will also find out about and describe the life process of reproduction in some plants and animals.</p>
Year 6	<p>Evolution and Inheritance Children will recognise that living things have changed over time</p>	<p>Electricity Building on their knowledge of electricity from Year 4, children</p>	<p>Animals, Including Humans Children will identify and name the main parts of the human</p>



	<p>and that fossils provide information about living things that inhabited the Earth millions of years ago. They will learn about living things producing offspring of the same kind, but that normally offspring vary and are not identical to their parents. Children will explore how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</p> <p>Living Things and Their Habitats</p> <p>Children will identify how living things are classified into groups according to common characteristics and based on similarities and differences. They will classify plants and animals based on specific characteristics, giving reasons</p>	<p>will associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. They will use recognised symbols when representing a simple circuit in a diagram.</p> <p>Light</p> <p>Children will recognise that light appears to travel in straight lines and use this idea to explain that objects are seen because they give out or reflect light into the eye. Children will also use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.</p>	<p>circulatory system, and describe the functions of the heart, blood vessels and blood. They will recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function as well as describing the ways in which nutrients and water are transported within animals, including humans.</p>
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