



St Mary's Catholic Primary School

Science Curriculum Map

2025-26



Term	Nursery (Understanding of the World)	Reception (Understanding of the World)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<ul style="list-style-type: none"> Explore the natural world around them making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world and contrasting environments drawing on their experiences and what has been read in class Understand some important processes and changes in the natural world around them including the seasons and changing states of matter. Describe their immediate environment using knowledge from observation, discussion, stories, nonfiction texts and maps. 	<ul style="list-style-type: none"> Animals Including Humans Seasonal Changes (Autumn) Animals Including Humans (Cont.) Seasonal Changes (Winter) Everyday Materials Seasonal Changes (Spring) Plants Seasonal Changes (Summer) 	<ul style="list-style-type: none"> Living Things and their Habitats Uses of Everyday Materials Plants (Part 1) Animals Including Humans Plants (Part 2) 	<ul style="list-style-type: none"> Forces and Magnets Animals Including Humans Plants Rocks Light 	<ul style="list-style-type: none"> States of Matter Animals Including Humans Sound Living Things and their Habitats Electricity 	<ul style="list-style-type: none"> Properties and Changes of Materials Animals Including Humans Living Things and their Habitats Forces Earth and Space 	<ul style="list-style-type: none"> Electricity Light Living Things and their Habitats Animals Including Humans Evolution and Inheritance 	
Autumn	<p>All about Me (Animals including Humans, Light & Seasonal Changes)</p> <ul style="list-style-type: none"> Identifying body parts Senses Describing themselves and their bodies Begin to make sense of their own life-story and family's history. <p>Book: Augustus and his Smile</p> <ul style="list-style-type: none"> Describing weather and seasonal changes Shadows Reflections <p>Winter Wonderland (Living Things and their Habitats & Animals including Humans, Plants)</p> <p>Nature Walks:</p> <ul style="list-style-type: none"> Use all their senses in hands-on exploration of natural materials by going on nature walks, identifying and collecting natural objects. Explore collections of materials with similar and/or different properties. Begin to understand the need to respect and care for the natural environment and all living things by identifying things left by humans in the environment. Draw natural objects, group objects together that are similar and use natural objects to make pictures and patterns. 	<p>All about Me (Animals including Humans, Light & Seasonal Changes)</p> <ul style="list-style-type: none"> Identifying body parts Senses Describing themselves and their bodies Talk about members of their immediate family and community. Name and describe people who are familiar to them. <p>Book: Augustus and his Smile</p> <ul style="list-style-type: none"> Describing weather and seasonal changes Shadows Reflections <p>Winter Wonderland (Living Things and their Habitats, States of Matter, Forces, Materials & Seasonal Change)</p> <p>Book: Room on the Broom</p> <ul style="list-style-type: none"> Exploring materials to make a broom - Mixing - collecting leaves and stones to make potions Testing objects: what floats or sinks? <p>Book: Stickman</p> <ul style="list-style-type: none"> Naming the seasons and describing their characteristics Explore the natural world around them. Name clothing worn Describe what they see, hear and feel whilst outside. Create snow globes - solid/ liquid. Observe changing states of matter. <p>Gayfawkes and Bonfire Night:</p> <ul style="list-style-type: none"> Exploring materials by making firework pictures. <p>The Nativity:</p> <ul style="list-style-type: none"> Exploring different materials used past and present for babies' 	<p>Animals Including Humans</p> <ul style="list-style-type: none"> Identify and name a variety of common animals. Classify animals as carnivores, herbivores or omnivores. Describe and compare the features of different animals. Identify, label and explain the basic parts of the human body and the five senses. <p>Seasonal Changes (Autumn)</p> <ul style="list-style-type: none"> Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies. <p>Animals Including Humans (Cont.)</p>	<p>Living Things and their Habitats</p> <ul style="list-style-type: none"> Compare living, dead and never-living things. Identify how plants and animals are suited to different habitats and depend on one another. Name plants and animals found in habitats and microhabitats. Explain simple food chains and identify different food sources. <p>Uses of Everyday Materials</p> <ul style="list-style-type: none"> Compare the suitability of different materials for everyday uses. Explore how materials can be changed by squashing, bending, twisting and stretching. 	<p>Forces and Magnets</p> <ul style="list-style-type: none"> Compare how objects move on different surfaces. Identify contact forces and non-contact forces (magnetism). Observe attraction and repulsion between magnets and magnetic materials. Group materials based on whether they are magnetic. Describe magnets as having two poles. Predict attraction or repulsion based on pole orientation. <p>Animals Including Humans</p> <ul style="list-style-type: none"> Explain that animals, including humans, need nutrition from food to survive. Identify how skeletons and muscles support, protect and help movement. 	<p>States of Matter</p> <ul style="list-style-type: none"> Compare and group materials as solids, liquids or gases. Explain how materials change state when heated or cooled. Describe evaporation, condensation and the water cycle. <p>Animals Including Humans</p> <ul style="list-style-type: none"> Explain the functions of the digestive system and different types of teeth. Construct and interpret food chains, identifying producers, predators and prey. 	<p>Properties and Changes of Materials</p> <ul style="list-style-type: none"> Compare and group materials based on their properties. Explain dissolving, solutions and methods of separating mixtures. Give reasons for the uses of different materials based on their properties. Identify and explain reversible and irreversible changes. <p>Animals Including Humans</p> <ul style="list-style-type: none"> Describe the changes as humans develop to old age. 	<p>Electricity</p> <ul style="list-style-type: none"> Investigate how the number and voltage of cells affect brightness and volume. Compare how circuit components function and explain variations. Use standard symbols to draw simple circuit diagrams. <p>Light</p> <ul style="list-style-type: none"> Explain that light travels in straight lines. Describe how we see objects because light enters the eye after reflecting or travelling from a light source. Use light travel to explain why shadows match the shape of objects.

		beds. The Gingerbread man: <ul style="list-style-type: none"> • Cooking: Mixing materials & rolling, stretching, pushing (forces) • Heating - observing changes of state 						
Spring	<p>Traditional Tales (Materials, Living Things and their Habitats)</p> <p>Book: Billy Goats Gruff</p> <ul style="list-style-type: none"> • Draw information from a simple map. • Explore local bridges and build their own from a range of materials. <p>Book: The Three Little Pigs</p> <ul style="list-style-type: none"> • Create houses using different materials, discussing their properties. • Use all their senses in hands-on exploration of natural materials. • Explore collections of materials with similar and/or different properties. • Talk about the differences between materials and changes they notice <p>Growing (Plants, Living things & their Habitats)</p> <ul style="list-style-type: none"> • Use all their senses in hands-on exploration of natural materials. • Explore collections of materials with similar and/or different properties. • Plant seeds and care for growing plants. • Understand the key features of the life cycle of a plant and an animal. • Begin to understand the need to respect and care for the natural environment and all living things. 	<p>Traditional Tales (Materials, Living Things and their Habitats)</p> <p>Book: Billy Goats Gruff</p> <ul style="list-style-type: none"> • Draw information from a simple map. • Explore local bridges and build their own from a range of materials. <p>Book: The Three Little Pigs</p> <ul style="list-style-type: none"> • Explore the natural world around them. • Describe what they see, hear and feel whilst outside. • Create houses using different materials, discussing their properties. • Recognise some environments that are different to the one in which they live. <p>Growing (Plants, Living things & their Habitats)</p> <ul style="list-style-type: none"> • Explore the natural world around them. • Describe what they see, hear and feel whilst outside. • Recognise some environments that are different to the one in which they live. • Observing changes over time when planting a bean. • Explore the concept of Food waste through the story of the Hungry Caterpillar <p>Explore the Life cycles of flowering plants and a butterfly.</p> <p>Seasonal Changes</p> <ul style="list-style-type: none"> • Understand the effect of changing seasons on the natural world around them. 	<p>Seasonal Changes (Winter)</p> <p>Everyday Materials</p> <ul style="list-style-type: none"> • Distinguish between objects and the materials they are made from. • Identify and name common materials. • Describe and compare simple properties of materials. • Group materials based on their properties. 	<p>Plants (Part 1)</p> <ul style="list-style-type: none"> • Observe and describe how seeds and bulbs grow into mature plants. <p>Animals Including Humans</p> <ul style="list-style-type: none"> • Describe how animals, including humans, have offspring that grow into adults. • Identify the basic needs of animals and humans for survival. • Explain the importance of exercise, diet and hygiene for humans. 	<p>Animals Including Humans (Cont.)</p> <p>Plants</p> <ul style="list-style-type: none"> • Describe the functions of parts of flowering plants. • Investigate what plants need for growth and how needs vary. • Explain how water is transported in plants. • Describe the role of flowers in the plant life cycle. 	<p>Animals Including Humans (Cont.)</p> <p>Sound</p> <ul style="list-style-type: none"> • Explain how sounds are made through vibrations. • Describe how sound travels through a medium to the ear. • Investigate patterns between pitch, volume and vibrations. • Recognise that sound becomes quieter with distance. 	<p>Living Things and their Habitats</p> <ul style="list-style-type: none"> • Compare the life cycles of mammals, amphibians, insects and birds. • Describe reproduction in plants and animals. <p>Forces</p> <ul style="list-style-type: none"> • Explain gravity and why unsupported objects fall to Earth. • Identify the effects of air resistance, water resistance and friction. • Describe how mechanisms (levers, pulleys, gears) change the effect of forces. 	<p>Living Things and their Habitats</p> <ul style="list-style-type: none"> • Classify living things (including microorganisms, plants and animals) based on similarities and differences. • Give reasons for grouping plants and animals using specific characteristics.
	Summer	<p>Animals (Living Things and their Habitats, Animals excluding Humans)</p> <ul style="list-style-type: none"> • Exploring where animals live - habitats • Dinosaurs - secondary sources <p>Book: What the Ladybird Heard</p> <ul style="list-style-type: none"> • Exploring what a farm is. • Exploring different foods that come from animals. • Sorting and classifying - animals sorted by number of legs • Exploration of the pond - life cycle of a frog - amphibians 	<p>Animals (Living Things and their Habitats, Animals excluding Humans)</p> <ul style="list-style-type: none"> • Exploring where animals live - habitats • Dinosaurs - secondary sources <p>Book: What the Ladybird Heard</p> <ul style="list-style-type: none"> • Exploring what a farm is. • Exploring different foods that come from animals. • Sorting and classifying - animals sorted by number of legs • Exploration of the pond - life cycle of a frog - amphibians 	<p>Seasonal Changes (Spring)</p> <p>Plants</p> <ul style="list-style-type: none"> • Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. • Identify and describe the basic structure of a variety of common flowering plants, including trees. <p>Seasonal Changes (Summer)</p>	<p>Animals Including Humans (Cont.)</p> <p>Plants (Part 2)</p> <ul style="list-style-type: none"> • Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. 	<p>Rocks</p> <ul style="list-style-type: none"> • Compare and group rocks based on their properties. • Explain how fossils are formed. • Describe how soils are made from rocks and organic matter. <p>Light</p> <ul style="list-style-type: none"> • Explain that light is needed to see and that darkness is the absence of light. • Recognise that light reflects from surfaces and can be dangerous. 	<p>Living Things and their Habitats</p> <ul style="list-style-type: none"> • Group living things in different ways. • Use classification keys to identify and name living things. • Describe how environmental changes can affect living things. <p>Electricity</p> <ul style="list-style-type: none"> • Identify common electrical appliances. • Build and identify parts of a simple series circuit. • Explain when a lamp will 	<p>Forces (Cont.)</p> <p>Earth and Space</p> <ul style="list-style-type: none"> • Describe the movement of the Earth and other planets around the Sun. • Describe the Moon's movement around the Earth. • Recognise the Sun, Earth and Moon as spherical bodies. • Explain day and night using Earth's rotation.

	<p style="text-align: center;">Transport (Forces & Living Things and their Habitats & Rocks)</p> <p>Book: Naughty Bus</p> <ul style="list-style-type: none"> • Making ramps for vehicles and exploring speed. • Explore and talk about different forces they can feel. • Talk about the differences between materials and changes they notice. <p>Book: Rosie's Holiday</p> <ul style="list-style-type: none"> • Use all their senses in hands-on exploration of natural materials. • Explore collections of materials with similar and/or different properties. 	<p style="text-align: center;">Transport (Forces & Living Things and their Habitats)</p> <p>Book: Emma Jane's Aeroplane</p> <ul style="list-style-type: none"> • Explore the natural world around them. • Look at world map to trace Emma's Journey and landmarks • Describe what they see, hear and feel whilst outside. • Caring for the natural world during seasonal changes 			<ul style="list-style-type: none"> • Explain how shadows are formed and how their size changes. 	<p>light in a complete circuit.</p> <ul style="list-style-type: none"> • Recognise how switches open and close circuits. Identify conductors and insulators. 		<ul style="list-style-type: none"> • Describe variation in offspring and how they are similar to but not identical to parents. • Explain how adaptation supports survival and can lead to evolution.
--	---	--	--	--	--	---	--	--