



St. Joseph's Catholic Primary School

Science: Long Term Overview



Bishop Wilkinson
Catholic Education Trust
Through Christ, in Partnership

EYFS	<p>Through teaching and continuous provision, science in EYFS enables children to:</p> <ul style="list-style-type: none"> • Make comments about what they have heard and ask questions to clarify their understanding. • Use a range of small tools, including scissors, paint brushes and cutlery. • Work and play cooperatively and take turns with others. • Explore the natural world around them, making observations and drawing pictures of plants and animals. • Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. 	<ul style="list-style-type: none"> • Participate in small group, class, and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. • Understand some important processes and changes in the natural world, including the seasons and changing states of matter. • Feel confident to answer simple questions about observable properties of objects and people, animals, and plants around them. • Compare objects in their environment and talk about similarities and differences. • Ask questions about the world around them and seek to find their own answers. • Know what a plant is. • Know what a flower is. • Know where you see plants describe different plants and flowers know what an animal is. 	<ul style="list-style-type: none"> • Recognise and name a variety of different animals. • Know the names of different body parts of humans and animals they have experience of. • Recognise that different everyday objects are made from different materials. • Describe how different objects look and feel. • Know about different types of weather. • Observe changes in trees and plants as the seasons progress.
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Class	Cycle	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Year 1 / 2	A	<p>Human Body: Name and identify parts of the human body, senses</p> <p>Seasonal Changes: Changes in autumn collect and record results</p>	<p>Materials: Explore materials, melt and freeze, float or sink, absorption</p>	<p>Animals: Mammals, Birds, Fish, Amphibians, compare and group, carnivores, herbivores and omnivores</p>	<p>Caring for the planet: Why is it important to care for our planet? How can we care for our planet?</p>	<p>Plants: Plant and tree parts, wildflowers and garden plants, deciduous and evergreen trees</p>	<p>Growing and Cooking: Where does my food come from, planting, can I cook what I grow?</p> <p>Seasonal Changes:</p>

							Changes in winter collect and record results
	B	<p>Animal Survival: Mammals, Birds, Fish, Amphibians, Reptiles, Humans</p> <p>Humans: Name and identify parts of the human body, senses</p>	<p>Materials: Wood, paper and cardboard, brick and rock, glass and plastic, metal and fabrics, waterproofing</p> <p>Plastic: How is plastic helpful and harmful, how can we reduce plastic waste?</p>	<p>Plants (Light and Dark): Exploration, parts, what is needed to grow, light and dark</p>	<p>Living things and their habitats: Local area, polar, desert ocean forest and microhabitats, diet and food chains</p>	<p>Plants (Bulbs and Seeds): Bulb or seeds, what is needed to grow?</p> <p>Growing Up: Mother and offspring, human and mammal life cycle, amphibian and butterfly life cycles, patterns between animals</p>	<p>Wildlife: What does wildlife do for us? What can we do for wildlife?</p>
Year 3 / 4	A	<p>Plants: Parts of plants, needs of plants, plant life cycle</p>	<p>Rocks: Comparing rocks, fossils, rock formation</p>	<p>Light: Sources, reflection, shadows</p>	<p>Animals including humans: Nutrition, muscular skeletal system</p>	<p>Forces and Magnets: Non-contact forces, attraction & repulsion</p>	<p>Bee project: Relationship between bees and their environment</p>
	B	<p>States of Matter: Changes of state, heating and cooling, the water cycle</p>	<p>Animals including humans: Digestive system, food chains</p>	<p>Sound: Making sounds, vibrations, the ear, pitch, and volume</p>	<p>Living things and their habitats: Classification, characteristics, environmental changes</p>	<p>Electricity: Appliances, circuits, conductors</p>	<p>History of science: Science across: Egyptians, Greek, Romans, Middle Ages to modern science</p>
Year 5 / 6	A	<p>Properties and change of materials: Classifying materials, dissolving, separating & changes of state</p>	<p>Animals including humans: Life cycles, reproduction, human life cycle</p>	<p>Forces: gravity air & water resistance, friction</p>	<p>Living things and their habitats: Classification, life cycles: amphibians, insects, and birds</p>	<p>Earth and Space: Earth's movement, planets & the moon in relation to the Sun</p>	<p>Scientific method: Focus upon: hypothesis, variables, equipment, data Case Study-blood transfusion Observe Chimpanzees</p>

	B	Animals including humans: Circulatory system	Light: How light travels, sight, shadows	Electricity: effect of voltage of cells, varying function of components	Evolution and inheritance: Fossils, variation, reproduction & adaptation, evolution	Living things and their habitats: Classifying microorganism, plants & animals	Famous scientists: Famous scientists and their impact upon the world e.g. Edward Jenner, Isaac Newton, Alexander Fleming
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