









Curriculum Overview: Science

Science at St John the Baptist


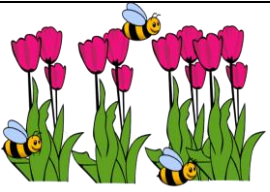





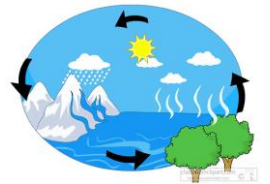


Enthusiasing St John the Baptist children to be inquisitive about the world around us!

Our Science curriculum aims to enable the children to:

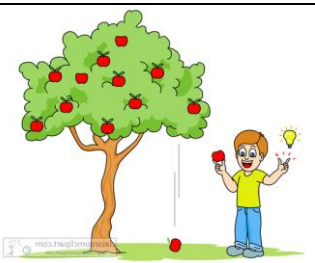
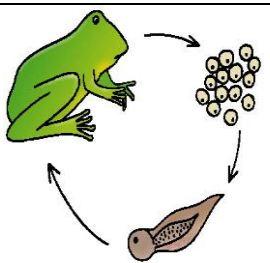



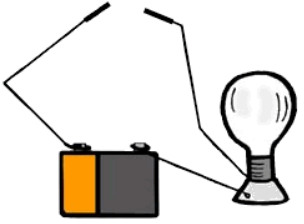
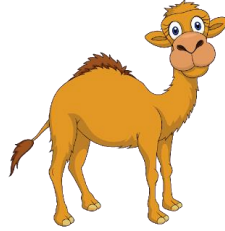

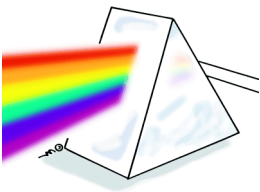

- Explore and discover the world around them
- Develop a strong core skill set for asking and answering Scientific questions
- Deepen and broaden their Scientific knowledge

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1							
	<p>How are animals different?</p> <ul style="list-style-type: none"> • Name and identify common animals • Name, draw and label basic body parts 	<p>Why is plastic useful?</p> <ul style="list-style-type: none"> • Identify and name different materials • Group different materials • Describe simple properties of materials 	<p>How does your garden grow?</p> <ul style="list-style-type: none"> • Identify and name plants and trees • Identify and label parts of a plant • Discover how plants have changed over time 	<p>Why is it cold in December?</p> <ul style="list-style-type: none"> • Observe changes across the four seasons • Observe and describe weather across the seasons • Describe how day length varies 			
Year 2							
	<p>Which material would make the best wellies?</p> <ul style="list-style-type: none"> • Identify & compare everyday materials • Explore how to change the shape of solid objects • Choose suitable materials for purpose 	<p>Who lives where?</p> <ul style="list-style-type: none"> • Understand that living things live in the habitat to which they are suited • Identify plants and animals in a microhabitat • Discover how animals obtain food 	<p>What does a plant put on its wish list?</p> <ul style="list-style-type: none"> • Observe and describe how seeds and bulbs grow into mature plants • Observe and describe what plants need to stay healthy 	<p>How do animals survive?</p> <ul style="list-style-type: none"> • Compare animals over time • Describe the basic needs of animals • Understand the importance of a balanced diet, regular exercise and personal hygiene 			

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Year 3					
	<p>Why are our bodies special?</p> <ul style="list-style-type: none"> Classify foods into groups Understand that nutrition come from food Understand the function of the skeleton 	<p>How does your garden grow?</p> <ul style="list-style-type: none"> Explore the requirements of a flowering plant Explain how water travels in plants Understand pollination Understand the function of different parts of a flowering plant 	<p>Why can we see in the dark?</p> <ul style="list-style-type: none"> Recognise that light is needed for sight Understand how light travels to the eye Explain how a shadow is formed 	<p>Do all forces involve contact?</p> <ul style="list-style-type: none"> Compare how things move on different surfaces Understand that magnets attract some materials but not others Understand that not all forces require contact 	<p>What would you build your house with?</p> <ul style="list-style-type: none"> Compare rocks according to their properties Discover how different rocks are formed Find out what rocks are made from
Year 4					
	<p>Do we just need our teeth to eat?</p> <ul style="list-style-type: none"> Construct basic food chains Identify parts of the digestive system Identify different types of teeth and their functions 	<p>How can we tell the difference between living things?</p> <ul style="list-style-type: none"> Group living things Use classification keys Explore our local environment 	<p>Why do materials change state?</p> <ul style="list-style-type: none"> Observe changes of state Understand evaporation and condensation Describe the stages in the water cycle 	<p>What do we need to create power?</p> <ul style="list-style-type: none"> Identify appliances that run off electricity Construct a simple circuit Identify conductors and insulators 	<p>Why do objects make different sounds?</p> <ul style="list-style-type: none"> Understand that sound is created by vibrations Understand how sound travels to the ear Recognise the relationship between sound and distance

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Year 5					
	<p>How could forces keep us safe?</p> <ul style="list-style-type: none"> • Explain why objects fall to the Investigate air resistance • Investigate the effect of water on gravity 	<p>Do all species start as an egg?</p> <ul style="list-style-type: none"> • Understand stages in a human life cycle • Describe the process of animal reproduction • Describe plant reproduction 	<p>What would you need to be a CSI investigator?</p> <ul style="list-style-type: none"> • Compare and group everyday materials <ul style="list-style-type: none"> • Explain dissolving • Identify reversible and irreversible changes 	<p>How different will you be when you are as old as the Queen?</p> <ul style="list-style-type: none"> • Explain how humans have changed through time • Understand the human life stages • Predict how humans will change over time 	<p>Would you ever want to live in Space?</p> <ul style="list-style-type: none"> • Describe the planets in the solar system • Describe the movement of the moon • Explain day and night
Year 6					
	<p>How many circuits does it take to light up a light bulb?</p> <ul style="list-style-type: none"> • Design circuits • Identify broken circuits • Create a circuit diagram using symbols 	<p>How do we know a camel is a mammal?</p> <ul style="list-style-type: none"> • Classify organisms using keys • Design a classification key • Design a creature 	<p>Why aren't there any dinosaurs in Hackney?</p> <ul style="list-style-type: none"> • Identify animals from fossils • Understand variation • Understand how adaptation leads to evolution 	<p>Why can't I see round corners?</p> <ul style="list-style-type: none"> • Identify the factors that affect shadows • Understand light is reflected • Investigate light phenomena 	<p>Which bits of my body could I live without?</p> <ul style="list-style-type: none"> • Name the main parts of the circulatory system • Understand pulse and blood pressure • Describe the function of blood

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