



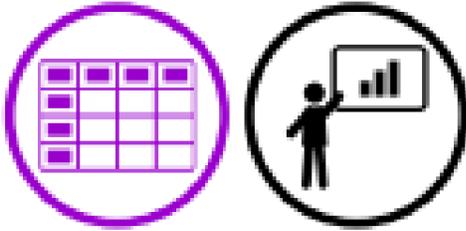
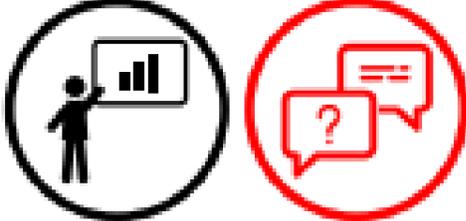
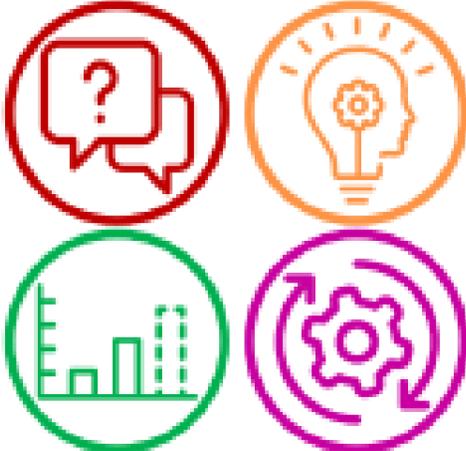
# St. Anne's Catholic Primary School: Year 3 Science Curriculum

Term	Science topic and famous scientist	National Curriculum Objectives
Autumn 1	Rocks William Smith	<ul style="list-style-type: none"><li>• Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.</li><li>• Describe in simple terms how fossils are formed when things that have lived are trapped within rock.</li><li>• Recognise that soils are made from rocks and organic matter.</li></ul>
Autumn 2	Animals including humans	<ul style="list-style-type: none"><li>• Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.</li><li>• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.</li></ul>
Spring 1	Forces, magnets and materials Michael Faraday	<ul style="list-style-type: none"><li>• Compare how things move on different surfaces.</li><li>• Notice that some forces need contact between two objects, but magnetic forces can act at a distance.</li><li>• Observe how magnets attract or repel each other and attract some materials and not others.</li><li>• Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.</li><li>• Describe magnets as having two poles.</li><li>• Predict whether two magnets will attract or repel each other, depending on which poles are facing.</li></ul>
Spring 2	Plants David Attenborough	<ul style="list-style-type: none"><li>• Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.</li><li>• Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.</li></ul>
Summer 1	Plants	<ul style="list-style-type: none"><li>• Investigate the way in which water is transported within plants.</li><li>• Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</li></ul>

Summer 2	Light Thomas Edison	<ul style="list-style-type: none"> <li>Recognise that they need light in order to see things and that dark is the absence of light.</li> <li>Notice that light is reflected from surfaces.</li> <li>Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.</li> <li>Recognise that shadows are formed when the light from a light source is blocked by an opaque object.</li> <li>Find patterns in the way that the size of shadows change.</li> </ul>
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## Working Scientifically

National Curriculum working scientifically statement	PLAN guidance	Science skills
Asking relevant questions and using different types of scientific enquiries to answer them	<ul style="list-style-type: none"> <li>The children consider their prior knowledge when asking questions. They independently use a range of question stems. Where appropriate, they answer these questions.</li> <li>The children answer questions posed by the teacher.</li> <li>Given a range of resources, the children decide for themselves how to gather evidence to answer the question. They recognise when secondary sources can be used to answer questions that cannot be answered through practical work. They identify the type of enquiry that they have chosen to answer their question.</li> </ul>	 
Setting up simple practical enquiries, comparative and fair tests	<ul style="list-style-type: none"> <li>The children select from a range of practical resources to gather evidence to answer questions generated by themselves or the teacher.</li> <li>They follow their plan to carry out: observations and tests to classify; comparative and simple fair tests; observations over time; and pattern seeking.</li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Explanatory note</b> A comparative test is performed by changing a variable that is qualitative e.g. the type of material, shape of the parachute. This leads to a ranked outcome.</p> <p>A fair test is performed by changing a variable that is quantitative e.g. the thickness of the material or the area of the canopy. This leads to establishing a causative relationship.</p> </div>	
Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	<ul style="list-style-type: none"> <li>The children make systematic and careful observations.</li> <li>They use a range of equipment for measuring length, time, temperature and capacity. They use standard units for their measurements.</li> </ul>	 

<p>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</p> <p>Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p>	<ul style="list-style-type: none"> <li>The children sometimes decide how to record and present evidence. They record their observation e.g. using photographs, videos, pictures, labelled diagrams or writing. They record their measurements e.g. using tables, tally charts and bar charts (given templates, if required, to which they can add headings). They record classifications e.g. using tables, Venn diagrams, Carroll diagrams.</li> <li>Children are supported to present the same data in different ways in order to help with answering the question.</li> </ul>	
<p>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p>	<ul style="list-style-type: none"> <li>They communicate their findings to an audience both orally and in writing, using appropriate scientific vocabulary.</li> </ul>	
<p>Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p>	<ul style="list-style-type: none"> <li>They draw conclusions based on their evidence and current subject knowledge.</li> <li>They identify ways in which they adapted their method as they progressed or how they would do it differently if they repeated the enquiry.</li> <li>Children use their evidence to suggest values for different items tested using the same method e.g. the distance travelled by a car on an additional surface.</li> <li>Following a scientific experience, the children ask further questions which can be answered by extending the same enquiry.</li> </ul>	
<p>Identifying differences, similarities or changes related to simple scientific ideas and processes</p>	<ul style="list-style-type: none"> <li>Children interpret their data to generate simple comparative statements based on their evidence. They begin to identify naturally occurring patterns and causal relationships.</li> </ul>	
<p>Using straightforward scientific evidence to answer questions or to support their findings</p>	<ul style="list-style-type: none"> <li>Children answer their own and others' questions based on observations they have made, measurements they have taken or information they have gained from secondary sources. The answers are consistent with the evidence.</li> </ul>	