

St. Michael's Catholic Primary School-Progression in science skills

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Planning, Communication and Sources	<p>Look carefully at the world around them. Notice some of the features of things in their immediate environment. Learning to talk about some of the things they have noticed. Learn to ask how and why questions about animals and plants.</p>	<p>Draw simple pictures, talk about what they see and do, use simple charts to communicate findings, identify key features, ask scientific questions, begin to use scientific vocabulary.</p>	<p>Describe their observations using scientific vocabulary, use a range of simple texts to find information, suggest how to find things out from other sources, identify key features, ask scientific questions.</p>	<p>Use pictures, writing, diagrams and tables, use simple texts to find information, begin to find things out from other sources, with the teacher's direction, record their observations in written, pictorial and diagrammatic forms, select the appropriate format to record their observations.</p>	<p>Record observations, comparisons and measurements using tables and bar charts, begin to plot points to form a simple graph, use graphs to point out and interpret patterns in their data, select information from a range of sources provided for them, begin to suggest areas of where to search for information.</p>	<p>Record observations systematically, use appropriate scientific language and conventions to communicate quantitative and qualitative data, select a range of appropriate sources of information including books and the internet.</p>	<p>Choose scales for graphs which show data and features effectively, identify measurements and observations which do not fit into the main pattern, begin to explain anomalous data, use appropriate ways to communicate quantitative data using scientific language</p>
Enquiring, testing, obtaining and presenting evidence	<p>Use simple equipment provided to make observations. Carry out simple experiments – floating/sinking.</p>	<p>Test ideas suggested to them, say what they think will happen, use first hand experiences to answer questions, begin to compare some living things.</p>	<p>use simple equipment provided to aid observation, compare objects, living things or events, make observations relevant to their task, begin to recognise when a test or comparison is unfair, use first hand experiences to answer questions.</p>	<p>Put forward own ideas about how to find the answers to questions, recognise the need to collect data to answer questions, carry out a fair test with support, recognise and explain why it is a fair test with help, begin to realise that scientific ideas are based on evidence.</p>	<p>With support, pupils begin to realise that scientific ideas are based on evidence, show in the way they perform their tasks, how to vary one factor while keeping others the same, decide on an appropriate approach in their own investigations to answer questions, describe which factors they are varying and which will remain the same and say why.</p>	<p>Use previous knowledge and experience combined with experimental evidence to provide scientific explanations, recognise the key factors to be considered in carrying out a fair test.</p>	<p>Describe evidence for a scientific idea, use scientific knowledge to identify an approach for an investigation, explain how the interpretation leads to new ideas.</p>

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Observing and recording	<p>Make observations in the local environment. Learn to communicate their findings through talk/pictures. Draw simple pictures/mark making to record their findings.</p>	<p>Make observations using appropriate senses, record observations, communicate observations orally, in drawing, labelling, simple writing and using ICT.</p>	<p>Respond to questions asked by the teacher, ask scientific questions, collect and record data (supported by the teacher), suggest how they could collect data to answer questions, begin to select equipment from a limited range.</p>	<p>Make relevant observations, measure using given equipment, select equipment from a limited range.</p>	<p>Carry out measurement accurately, make a series of observations, comparisons and measurements, select and use suitable equipment, make a series of observations and measurements adequate for the task.</p>	<p>Make a series of observations, comparisons and measurements with increasing precision, select apparatus for a range of tasks, plan to use apparatus effectively, begin to make repeat observations and measurements systematically.</p>	<p>Measure quantities with precision using fine, scale divisions, select and use information effectively, make enough measurements or observations for the required task.</p>
Considering evidence and evaluating	<p>Make simple comparisons-Notice and talk about how some things are different and some are the same. Begin to explain why some things change. Talk about these changes.</p>	<p>Make simple comparisons and groupings, say what has happened, say whether what has happened was what they expected.</p>	<p>Say what has happened, say what their observations show and whether it was what they expected, begin to draw simple conclusions and explain what they did, begin to suggest improvements in their work.</p>	<p>Begin to offer explanations for what they see and communicate in a scientific way what they have found out, begin to identify patterns in recorded measurements, suggest improvements in their work, evaluate their findings.</p>	<p>Predict outcomes using previous experience and knowledge and compare with actual results, begin to relate their conclusions to scientific knowledge and understanding, suggest improvements in their work, giving reasons.</p>	<p>Make predictions based on their scientific knowledge and understanding, draw conclusions that are consistent with the evidence, relate evidence to scientific knowledge and understanding, offer simple explanations for any differences in their results, make practical suggestions about how their working methods could be improved.</p>	<p>Make reasoned suggestions on how to improve working methods, show how interpretation of evidence leads to new ideas, explain conclusions, showing understanding of scientific ideas.</p>

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Topics	The World People and communities Health and self-care Exploring and using media and materials	Plants Animals including humans Everyday materials Seasonal Changes	Living things and their habitats Plants Animals including humans Uses of everyday materials	Plants Animals including humans Rocks Light Forces and magnets	Living things and their habitats Animals including humans States of matter Sound Electricity	Living things and their habitats Animals including humans Properties and changes of materials Forces Earth and Space	Living things and their habitats Animals including humans Evolution and inheritance Light Electricity