



## St Mary's Primary School Science Skills Progression Ladder

	<u>EYFS</u>	<u>YEAR 1</u>	<u>YEAR 2</u>	<u>YEAR 3</u>	<u>YEAR 4</u>	<u>YEAR 5</u>	<u>YEAR 6</u>
<b><u>Planning &amp; predicting</u></b>	Ask questions how things change; plants, animals etc.	Suggest what might happen and ways to test ideas.	With support, suggest some ideas and ask questions. Think about and discuss tests that are fair or unfair.	Respond to suggestions. Make prediction and consider what makes a fair test. In groups carry out fair tests.	Recognise the purpose in collecting data to answer questions. Consider what constitutes a fair test.	Recognise that ideas are based on knowledge & creative thinking. Make predictions and suggest methods of testing, collect evidence and independently suitable equipment.	Consider how other scientists have combined evidence from observation and measurement. Suggest new ideas and explanations for phenomena, ensure evidence collected is sufficient.
<b><u>Investigating &amp; observing</u></b>	Talk about features of their environment and how they vary.	Make observations using senses. Explore using the five senses. Make simple comparisons.	Make observations & comparisons using simple equipment, following simple instructions. Use experiences to answer questions.	Make observations and comparisons by measuring length, volume and time using equipment. Use experience and information sources to answer questions.	Make relevant observations & comparisons. Give reasons why measurements of length should be repeated. Begin to explain why a test is fair.	Carry out a fair test, explain why observations need to be repeated. Select information from provided sources.	Identify key factors for a fair test. Make a variety of observations and measurements correctly. Decide what checks need to be repeated so data is reliable.
<b><u>Recording, analysing &amp; evaluating</u></b>	Show an interest in using IT to photograph their observations or draw their observations captioned by adult support.	Communicate findings in simple ways. Collect evidence to try to answer a question.	Record findings in simple ways using tables & graphs. Talk about what happened and make simple conclusions.	Communicate findings in a variety of ways. Explain what was expected and compare to what did happen. Identify patterns.	Explain what the evidence shows in a scientific way and link to previous predictions. Also consider improvements.	Communicate findings in a variety of ways, identify patterns and communicate findings in tables, charts and line graphs using ICT.	Using ICT communicate findings (year 5) and identify and explain differences. Improve methods in their work giving suggestions for the future.