



# KS1 Science – Working Scientifically Skills progression

## KS1 Statutory objectives

**KS1 Working Scientifically Objectives: Pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:**

Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment, performing simple tests, Identifying and classifying using their observations and ideas to suggest answers to questions  
Gathering and recording data to help in answering questions.

	KS1 Progression of skills		
	EYFS	Y1	Y2
Observation & Conclusion	<p>Make simple observations</p>	<ul style="list-style-type: none"> <li>• Make observations</li> <li>• Talk simply about what they see</li> </ul>	<ul style="list-style-type: none"> <li>• Answer questions using evidence</li> <li>• Ask questions about what they see</li> </ul>
Enquiry, Prediction, Testing	<p>Enjoy finding out about things</p>	<ul style="list-style-type: none"> <li>• Answer simple questions about what they see</li> <li>• Describe simple features with simple vocabulary–parts of the body, a tree</li> <li>• Observe closely using simple equipment to help them – e.g., magnifying glass</li> </ul>	<ul style="list-style-type: none"> <li>• Make relevant observations</li> <li>• Give simple reasons and explanations for what they have seen</li> <li>• Identify simple parts of what they see – e.g., petal, leg</li> </ul>
Data Collection	<p>Join in- e.g., leaf collections</p>	<ul style="list-style-type: none"> <li>• Perform simple tests using simple equipment – e.g., a timer</li> <li>• Talk about some reasons why things might happen, or why something has happened</li> <li>• Understand basic safety rules when testing out their ideas</li> </ul>	<ul style="list-style-type: none"> <li>• Find things out, with help and suggestions</li> <li>• Begin to make predictions about what might happen</li> <li>• Understand key factors that make a fair test</li> <li>• Use simple apparatus effectively and safely</li> </ul>
Recording	<p>Draw what interests them</p>	<p>Recognise that scientific ideas are more than guesses, and</p> <ul style="list-style-type: none"> <li>• based on evidence</li> <li>• Collect data when asked – e.g., a weather station</li> <li>• Count data sets – trees in a field</li> <li>• Sort data within given criteria – tall trees, wet days, blue eyes</li> <li>• Remember and recall information</li> <li>• Underline important facts</li> </ul>	<ul style="list-style-type: none"> <li>• Gather and record data to help in answering questions and understand why this is important</li> <li>• Use tallies to count in surveys</li> <li>• Use books to find information</li> </ul>
		<ul style="list-style-type: none"> <li>• Record what they have seen or done in different ways, including drawing and labelled diagrams</li> <li>• Record some information onto a pre prepared chart</li> <li>• Label objects according to simple criteria</li> </ul>	<ul style="list-style-type: none"> <li>• Begin to use cause and effect in their explanations, and some scientific vocabulary</li> <li>• Use simple tables and charts</li> <li>• Identify, classify and use bulleted lists</li> <li>• Make sketches of their observations Use line graphs to present their findings</li> </ul>
		<ul style="list-style-type: none"> <li>• Record things they have seen or done from memory</li> </ul>	