



Progression of Working Scientifically



	Research & using Secondary Sources	Identifying, classifying & grouping	Pattern seeking	Observing over time	Comparative and fair testing
Reception	<p>I show curiosity about objects, events and people (Playing & Exploring)</p> <p>I question why things happen (Speaking: 30-50 months)</p> <p>I can take a risk, engage in new experiences and learn by trial and error (Playing & Exploring)</p>	<p>I can develop ideas of grouping, sequences, cause and effect (Creative & Thinking Critically)</p>	<p>I can closely observe what animals, people and vehicles do (The World: 80-20 months)</p> <p>I can use my senses to explore the world around me (Playing & exploring)</p> <p>I can make links and notice patterns in my own experience (Creating & Thinking Critically)</p>	<p>I can comment and ask questions about aspects of my familiar world such as the place where I live or the natural world (30-50 months)</p>	<p>I can create simple representations of events, people and objects. (Being imaginative: 40-60+ months)</p> <p>Find ways to solve problems/find new ways to do things/test their ideas (Creating & Thinking Critically)</p>
EYFSP	<p>I understand some important processes and changes in the natural world around me, including the seasons and changing states of matter. (ELG: UTW)</p>	<p>I know some similarities and differences between the natural world around me and contrasting environments, drawing on my own experience and what has been read in class. (ELG: UTW)</p>	<p>I understand some important processes and changes in the natural world around me, including the seasons and changing states of matter. (ELG: UTW)</p>	<p>I can explore the natural world around me, making observations and drawing pictures of animals and plants (ELG: UTW)</p>	<p>I understand some important processes and changes in the natural world around me, including the seasons and changing states of matter. (ELG: UTW)</p>
Year 1	<p>(S1) I can ask people simple questions and use some simple secondary sources to find the answers.</p>	<p>(S2) I can use simple features to compare objects, materials and living things and, with help, decide how to sort and group them.</p>	<p>(S3) I can observe changes over time and I begin to notice patterns and relationships, with some guidance.</p>	<p>(S4) I can look closely and use simple equipment such, as hand lenses and egg timers.</p>	<p>(S5a) With help, I can record and communicate my findings in a range of ways and begin to use simple scientific language.</p> <p>(S5b) I can perform simple tests with support.</p>
Year 2 (NC)	<p>(S1) I can ask simple questions and recognise that they can be answered in different ways.</p>	<p>(S2) I can identify and classify.</p>	<p>(S3) I can use my observations and ideas to suggest answers to questions.</p>	<p>(S4) I can observe closely, using simple equipment.</p>	<p>(S5a) I can gather and record data to help in answering questions.</p> <p>(S5b) I can perform simple tests.</p>
Year 3	<p>(S1a) I can ask questions, and with some support or guidance, use different types of enquiries to answer them.</p> <p>(S1b) I can use straightforward scientific evidence to answer given questions.</p>	<p>(S2a) I can talk about criteria for grouping, sorting and classifying and use simple keys.</p> <p>(S2b) I can record findings using simple scientific language including keys, with some support.</p>	<p>(S3a) I look for naturally occurring patterns and relationships and I can decide what data to collect to identify them.</p> <p>(S3b) With help, I can identify changes, patterns, similarities and differences in their data in order to draw simple conclusions and answer questions.</p>	<p>(S4a) With help, I can make decisions about what observations to make, how long to make them for and the type of simple equipment that might be used.</p> <p>(S4b) I can collect data from my own observations and measurements, using notes, simple tables and standard units.</p>	<p>(S5a) I can set up simple practical enquiries, and know when a fair test is necessary.</p> <p>(S5b) With support, I can identify new questions arising from the data, making predictions for new values within or beyond the data, finding ways of improving what I have already done.</p> <p>(S5c) I can record findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables with some support.</p> <p>(S5d) I can report my findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</p>

<p>Year 4 (NC)</p>	<p>(S1a) I can ask relevant questions and use different types of scientific enquiries to answer them.</p> <p>(S1b) I can use straightforward scientific evidence to answer questions or to support my findings.</p>	<p>(S2) I can gather, record, classify and present data in a variety of ways to help in answering questions</p> <p>(S2b) I record findings using simple scientific language including keys.</p>	<p>(S3) I can identify differences, similarities or changes related to simple scientific ideas and processes.</p>	<p>(S4) I make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.</p>	<p>(S5a) I can set up simple practical enquiries, comparative and fair tests.</p> <p>(S5b) I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p> <p>(S5c) I record findings using simple scientific language, drawings, labelled diagrams, bar charts, and tables</p> <p>(S5d) I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p>
<p>Year 5</p>	<p>(S1) I can recognise which secondary sources will be most useful to research my ideas and begin to separate opinion from fact.</p>	<p>(S2a) I can use and develop keys and other information records to identify, classify and describe living things and materials.</p> <p>(S2b) I can record data and results of increasing complexity using scientific diagrams and classification keys.</p>	<p>(S3) I can identify patterns that might be found in the natural environment and decide what data to collect to identify them.</p>	<p>(S4a) I can choose what observations to make, what observations to use and how long to make them for, and whether to repeat them.</p> <p>(S4b) I can choose the most appropriate equipment to take measurements and explain how to use it accurately.</p>	<p>(S5a) I can select and plan the most appropriate type of scientific enquiry to answer scientific questions. I can recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and why.</p> <p>(S5b) I can use results to identify when further tests or observations might be needed.</p> <p>(S5c) I can record data and results of increasing complexity using scientific diagrams and labels, tables and bar graphs.</p>
<p>Year 6 NC</p>	<p>(S1) I can identify scientific evidence that has been used to support or refute ideas or arguments</p>	<p>(S2) I can record data and results of increasing complexity using scientific diagrams including classification keys.</p>	<p>(S3) I can report and present findings from enquiries, including causal relationships, in oral and written forms such as displays and other presentations.</p>	<p>(S4) I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.</p>	<p>(S5a) I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.</p> <p>(S5b) I can use test results to make predictions to set up further comparative and fair tests</p> <p>(S5c) I can record data and results of increasing complexity using scientific diagrams and labels, tables, scatter graphs, bar and line graphs.</p> <p>(S5d) I can report and present findings from enquiries, including conclusions and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations.</p>