

Science – Progression of Key Skills and Knowledge

Cohort	Autumn	Spring	Summer
<u>EYFS</u>	Understanding the world Identifying materials and their properties Introduction to basic scientific concepts e.g. floating and sinking,- how things change e.g. burning. Magnetism Experimentation - (adapting and modifying) Observing living things – lots of growing Non-standard data collection Observing the natural world. E.g. weather Observing, describing, simple classification, communicating, comparing		
<u>Year 1</u>	<u>Observing</u> Use simple equipment to observe closely <u>Communicating</u> Ask simple questions and recognise that they can be answered in different ways. <u>Classify and comparing</u> Identify and classify using t-charts.	<u>Communicating</u> Use observations to suggest answers to questions <u>Gathering data</u> Gather and record data to help in answering questions. <u>Classifying and comparing</u> Identify and classify using in a range of tables/venn diagrams.	<u>Measuring</u> Take simple measurements using non-standard units. <u>Gathering data</u> Perform simple tests. <u>Predicting</u> Make simple predictions.
<u>Year 2</u>	<u>Observing</u> Use simple equipment to observe closely. <u>Communicating</u> Ask simple questions and recognise that they can be answered in different ways including use of scientific language. <u>Classifying and comparing</u> Identify, group and classify using in a range of tables/venn diagrams	<u>Communicating</u> Use observations to suggest answers to questions noticing similarities, differences and patterns. <u>Gathering data</u> Perform simple comparative tests. <u>Observing</u> Use simple equipment to observe closely including changes over time.	<u>Gathering data</u> Gather and record data to help in answering questions, including from secondary sources of information. <u>Predicting</u> Begin to explain predictions using prior knowledge and understanding of topics.

	<p><u>Measuring</u> Take simple measurements using non-standard units.</p> <p><u>Gathering data</u> Gather and record data to help in answering questions.</p>		
<u>Year 3</u>	<p><u>Observing</u> Make systematic and careful observations.</p> <p><u>Measuring</u> Take accurate measurements using standard units</p> <p><u>Communicating</u> Ask relevant questions and use different types of scientific enquiries to answer them.</p> <p><u>Making models</u> Record findings using simple scientific language, drawings, labelled diagrams</p> <p><u>Classifying and comparing</u> Identify differences, similarities or changes related to simple scientific ideas and processes.</p> <p><u>Gathering data</u> Gather, record, classify and present data in a variety of ways.</p>	<p><u>Measuring</u> With some support, use a range of equipment to take accurate measurements including thermometers and data loggers.</p> <p><u>Communicating</u> With some support, report on the findings of enquiries including oral and written explanations, displays of results and conclusions.</p> <p><u>Gathering data</u> With some support, set up simple, practical enquiries comparative and fair tests.</p>	<p><u>Communicating</u> Use straightforward scientific evidence to answer questions. Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</p> <p><u>Making models</u> With support, record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.</p>
<u>Year 4</u>	<p><u>Observing</u> Make systematic and careful observations.</p> <p><u>Measuring</u> Take accurate measurements using standard units</p>	<p><u>Measuring</u> Use a range of equipment to take accurate measurements including thermometers and data loggers.</p> <p><u>Communicating</u> Report on the findings of enquiries</p>	<p><u>Communicating</u> Use straightforward scientific evidence to answer questions. Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further</p>

	<p><u>Communicating</u> Ask relevant questions and use different types of scientific enquiries to answer them.</p> <p><u>Making models</u> Record findings using simple scientific language, drawings, labelled diagrams</p> <p><u>Classifying and comparing</u> Identify differences, similarities or changes related to simple scientific ideas and processes.</p> <p><u>Gathering data</u> Gather, record, classify and present data in a variety of ways.</p>	<p>including oral and written explanations, displays of results and conclusions.</p> <p><u>Gathering data</u> Set up simple, practical enquiries comparative and fair tests.</p>	<p>questions.</p> <p><u>Making models</u> Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.</p>
<u>Year 5</u>	<p><u>Measuring</u> Take measurements using a range of scientific equipment.</p> <p><u>Gathering data</u> Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.</p> <p><u>Making models</u> Record data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.</p> <p><u>Communication</u> Report and present findings from enquiries including conclusions, causal relationships, and explanations of and degree of trust in</p>	<p><u>Measuring</u> Take measurements with increasing accuracy and precision.</p> <p><u>Making models</u> Record data and results of increasing complexity</p>	<p><u>Measuring</u> Take repeat readings of measurements when appropriate.</p> <p><u>Communicating</u> Identify scientific evidence that has been used to support or refute ideas or arguments.</p>

	results, in oral and written forms.		
<u>Year 6</u>	<p><u>Measuring</u> Take measurements using a range of scientific equipment.</p> <p><u>Gathering data</u> Plan different types of scientific enquiries to answer their own or others' questions, including recognising and controlling variables where necessary.</p> <p><u>Making models</u> Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.</p> <p><u>Classifying and comparing</u> Group and classify things and recognise patterns</p>	<p><u>Measuring</u> Take measurements with increasing accuracy and precision.</p> <p><u>Gathering data</u> Use test results to make predictions to set up further comparative and fair tests.</p>	<p><u>Measuring</u> Take repeat readings of measurements when appropriate.</p>