

## Charlton Science Progression of Scientific Skills



EYFS	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
<ul> <li>To explore the natural world around them, making observations, drawing pictures of animals and plants.</li> <li>To know some similarities and differences between the natural world around them and contrasting environments, drawing on their experience and what has been read in class.</li> <li>To understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</li> </ul>	<ul> <li>To be able to record data - in a table, Venn diagram, chart.</li> <li>To be able to observe closely, using simple equipment.</li> <li>To be able to identify and classify.</li> <li>To be able to ask simple questions and recognise that they can be answered in different ways.</li> <li>To be able to perform simple tests.</li> <li>To be able to record simple data in order to answer a question.</li> <li>To be able to use parts of the plant to identify and classify it.</li> <li>To able to identify objects.</li> </ul>	<ul> <li>To be able to use observations to suggest answers to questions; to be able to observe using simple equipment.</li> <li>To be able to record data - flow diagram, table, tally chart, bar chart.</li> <li>To be able to perform a simple test.</li> <li>To be able to ask simple questions and recognise that they can be answered in different ways.</li> <li>To be able to gather and record data to help answer a question.</li> <li>To be able to perform a simple test.</li> <li>To be able to recognise that questions can be answered in a range of ways.</li> <li>To be able to use simple measurements to gather data.</li> </ul>	<ul> <li>To be able to record using drawings; to be able to record findings in a bar chart.</li> <li>To be able to report on findings from enquiries; to be able to provide an oral explanation of findings.</li> <li>To be able to set up a comparative test.</li> <li>To be able to set up a simple practical enquiry.</li> <li>To be able to set up a simple fair-test.</li> <li>To be able to identify changes related to scientific ideas.</li> <li>To be able to make systematic and careful observations and measurements.</li> <li>To be able to make systematic and careful observations.</li> <li>To be able to use state to make systematic and careful observations.</li> <li>To be able to use state to use straightforward scientific evidence to answer questions or to support their findings.</li> <li>To be able to measure using beakers and syringes.</li> <li>To be able to present information in a branching key.</li> </ul>	<ul> <li>To be able to record findings using labelled diagrams.</li> <li>To be able to use written explanations to report on findings from an enquiry; to be able to report on findings from enquiries, including oral and written explanations.</li> <li>To be able to identify the correct type of enquiry to answer a question.</li> <li>To be able to set up a comparative test; to be able to set up a simple fair tests.</li> <li>To be able to set up a simple practical enquiry.</li> <li>To be able to gather, record, classify and present data in a variety of ways to help in answering questions.</li> <li>To be able to use a scientific enquiry to answer a question.</li> <li>To be able to use a scientific enquiry to answer a question.</li> <li>To be able to use a scientific enquiry to answer a question.</li> <li>To be able to identify differences, similarities or changes related to simple scientific ideas.</li> <li>To be able to use straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	<ul> <li>To be able to present conclusions; to be able to report a presentation of an explanation; to be able to report and present findings from enquiries, including conclusions, causal relationships and explanations.</li> <li>To be able to identify scientific evidence that has been used to support or refute ideas or arguments; to be able to use evidence to refute or support an idea.</li> <li>To be able to record data within tables; to be able to record data using line graphs; to be able to communicate data using a scatter graph.</li> <li>To be able to plan a scientific enquiry to answer a question.</li> <li>To be able to use scientific diagrams and labels. To take accurate measurements using a data-logger; to be able to take repeated accurate measurements using a stopwatch.</li> <li>To be able to use test results to make predictions to set up further comparative and fair tests.</li> <li>To be able to evaluate an enquiry in terms of the amount of trust one can have in it.</li> </ul>	<ul> <li>To be able to plan pattern-seeking enquiry; to be able to plan an enquiry that will answer a question.</li> <li>To be able to report causal relationships; to be able to present findings from enquiries.</li> <li>To be able to record results using a line graph; to be able to record data in a table.</li> <li>To be able to measure with a data logger; to be able to take repeat measurements of data with precision using a data-logger.</li> <li>To be able to explain the degree of trust can be had in results.</li> <li>To be able to plan a fairtest by recognising the control variables; to be able to use predictions to set up fair tests.</li> <li>To be able to recognise which secondary sources will be most useful to research ideas.</li> <li>To be able to use test results to make predictions to set up further comparative tests.</li> <li>To be able to use test results to make a key to classify plants.</li> </ul>