Newton Tony Primary School CE VC
Progression of Scientific skills

Year Group	Asking questions	Observing and measuring	Performing tests	Identifying and classifying	Gathering and recording data	Reporting, presenting and communicating data/findings
Reception	Ask questions about why things happen and how things work, where they live or in their natural world.	Find out about, and identify, some features of living things, objects and events they observe Introduce vocabulary related to their observations.	Investigate objects and materials by using all their senses as appropriate.	Look closely at similarities, difference, patterns and change.	Through drawing, writing, making a model or photographing.	Make simple records and evaluations of work Through talk children discuss their observations of changes and are able to make comparisons.
1	Ask simple questions and recognise that they can be answered in different ways	Observe closely, using simple equipment	Perform simple tests with support	Identify and classify with some support. Begin to observe and identify, compare and describe.	Gather and record data with some support to help in answering questions	Begin to use observations and ideas to suggest answers to questions
2	Ask simple questions and recognise that they can be answered in different ways	Observe closely, using simple equipment	Perform simple tests	Identify and classify. Observe and identify, compare and describe.	Gather and record data to help in answering questions	Use observations and ideas to suggest answers to questions
3	Ask relevant questions and use different types of scientific enquiries to answer them	Begin to make systematic and careful observations, take accurate measurements using standard units and use a range of equipment	Begin to set up simple practical enquiries, comparative and fair tests	Begin to Identify differences, similarities or changes related to simple scientific ideas and processes	Gather, record, classify and present data in a variety of ways to help answer questions Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables	Use results to draw simple conclusions, make predications for new values, suggest improvements and raise further questions Report on findings from enquiries including oral and written explanations, displays or presentations of results and conclusions
4	Ask relevant questions and use different types of scientific enquiries to answer them	Make systematic and careful observations, take accurate measurements using standard units and use a range of equipment	Set up simple practical enquiries, comparative and fair tests	Identify differences, similarities or changes related to simple scientific ideas and processes	Gather, record, classify and present data in a variety of ways to help answer questions Record findings using simple scientific	Use results to draw simple conclusions, make predications for new values, suggest improvements and raise further questions

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					language, drawings, labelled diagrams, keys, bar charts and tables	Report on findings from enquiries including oral and written explanations, displays or presentations of results and conclusions.
5	Begin to plan different types of scientific enquiry to answer questions, including recognising and controlling variables where necessary	Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	Begin to use test results to make predications to set up further comparative and fair tests	Begin to use and develop keys and other information records to identify, classify and describe living things and materials	Record data and results of increasing complexity using scientific diagrams and labels, classification keys, scatter graphs, bar and line graphs	Report and present findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms Identify scientific evidence that has been used to support or refute ideas or arguments
6	Plan different types of scientific enquiry to answer questions, including recognising and controlling variables where necessary.	Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	Use test results to make predications to set up further comparative and fair tests	Use and develop keys and other information records to identify, classify and describe living things and materials	Record data and results of increasing complexity using scientific diagrams and labels, classification keys, scatter graphs, bar and line graphs	Report and present findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms Identify scientific evidence that has been used to support or refute ideas or arguments