Working scientifically progression Year 1- 6

Year 1 and 2	Year 3 and 4	Year 5 and 6
Asking questions and recognising they can be answered in different ways		
Asking simple questions and recognising that they can be answered in different ways	Asking relevant questions and using different types of scientific enquiries to answer them	Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
Making observations and taking measurements and engaging in practical enquiry to answer questions		
Observing closely, using simple equipment	Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

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Engaging in practical enquiry to answer questions		
Performing simple tests Identifying and classifying	Setting up simple practical enquiries, Comparative and fair tests	Planning different types of scientific enquiries to answer questions, Including recognising and controlling variables where necessary
Reporting and presenting evidence		
Gathering and recording data to help in answering questions	Gathering,recording, classifying and presenting data in a variety of ways to help in answering questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
Answering questions and concluding		
Using their observations and ideas to suggest answers to questions	Using straightforward scientific evidence to answer questions or to support their findings. Identifying differences, similarities or changes related to simple scientific ideas and processes Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.	Identifying scientific evidence that has been used to support or refute ideas or arguments Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations

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Evaluating and raising further questions		
	Using results to draw simple conclusions, make predictions for new values, Suggest improvements and raise further questions	Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations Using test results to make predictions to set up further comparative and fair tests
Communicating findings		
	Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations