



	KS1	Year 3	Year 4	Year 5	Year 6
Questioning and planning	Ask simple questions and recognise that they can be answered in different ways.	Ask relevant questions and answer questions.	Ask relevant questions and use different types of scientific enquiries to answer them.	Plan different types of scientific enquiries to answer questions.	Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
Testing, observing and measuring	Perform simple tests.	Set up simple and practical enquiries.	Set up simple and practical enquiries and comparative and fair tests.	Take measurements, using a range of scientific equipment, with increasing accuracy and precision.	Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
	Observe closely, using simple equipment.	Make careful observations.	Make systematic and careful observations.		
	Use observations and ideas to suggest answers to questions.	Make accurate measurements using standard units.	Make accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.		
Gathering and recording	Gather and record data to help in answering questions.	Gather, record and classify data in a variety of ways to help in answering questions.	Gather, record, classify and present data in a variety of ways to help in answering questions.	Record data and results of increasing complexity using scientific diagrams and labels, bar charts, scatter graphs and tables.	Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and line graphs.
		Record findings using simple scientific language, drawings, labelled diagrams, and keys.	Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.		
Reporting and presenting	Identify and classify.	Report on findings from enquiries: written presentations of results and conclusions.	Report on findings from enquiries: written explanations, displays or presentations of results and conclusions.	Written reporting and presenting of findings from enquiries: including conclusions and causal relationships, such as displays and other presentations.	Written reporting and presenting of findings from enquiries: including conclusions, causal relationships and explanations of and degree of trust in results, such as displays and other presentations.
			Report on findings from enquiries: oral explanations and presentations of results and conclusions.	Orally reporting and presenting of findings from enquiries: including conclusions and causal relationships.	Orally reporting and presenting of findings from enquiries: including conclusions, causal relationships and explanations of and degree of trust in results.
Concluding, predicting, and using scientific evidence		Use results to draw simple conclusions and to make predictions for new values.	Use results to draw simple conclusions, to make predictions for new values, to suggest improvements and raise further questions.	Use test results to make predictions to set up further comparative and fair tests	Identify scientific evidence that has been used to support or refute ideas or arguments.
		Identify differences and similarities related to simple, scientific ideas and processes.	Identify differences, similarities or changes related to simple, scientific ideas and processes.		Use test results to make predictions to set up further comparative and fair tests
		Use straightforward, scientific evidence to answer questions.	Use straightforward, scientific evidence to answer questions or to support their findings.		