



Science Progression of Skills

Working Scientifically

ASKING QUESTIONS

Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Questions why things happen. Beginning to understand 'why' and 'how' questions.	I can ask simple questions and answer them in different ways.	I can ask simple questions and answer them in different ways.	I can ask questions and use different types of scientific enquiries to answer them.	I can ask relevant questions and use different types of scientific enquiries to answer them.	I can plan different types of scientific enquiries (fair experiments) to answer questions, including recognising and controlling variables where necessary.	I can plan enquiries, including recognising and controlling variables where necessary.

OBSERVING

Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	I can observe closely using simple equipment.	I can observe closely, using simple equipment.	I can make observations and take measurements using standard units, using a range of equipment, including thermometers and data loggers.	I can make systematic and careful observations, and take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.	I can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.	I can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

MEASURING AND RECORDING

Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Responds to instructions involving a two-part sequence.</p> <p>Extends vocabulary, especially by grouping and naming, exploring the meaning and sounds of new words.</p>	I can gather, record data in a variety of ways to help with answering questions.	I can gather, record data in a variety of ways to help with answering questions.	I can gather, record, classify and present data in a variety of ways to help with answering questions.	I can gather, record, classify and present data in a variety of ways to help with answering questions.	I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, and take repeated readings when appropriate.	I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

CONDUCTING

Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Articulate their ideas and thoughts in well-formed sentences.	I can perform simple tests.	I can perform simple tests.	I can set up simple practical enquiries, comparative and fair tests.	<p>I can set up simple practical enquiries, comparative and fair tests.</p> <p><i>I can follow their plan to carry out:</i></p> <p>Observations and tests to classify; comparative and simple fair tests; observations over time; and pattern seeking.</p>	<p>I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.</p> <p>I can select from a range of practical resources to gather evidence to answer their questions. I can carry out fair tests, recognising and controlling variables.</p>	<p>I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.</p> <p>I can decide what observations or measurements to make over time and for how long.</p> <p>I can look for patterns and relationships using a suitable sample.</p>

CONCLUDING AND EVALUATING

Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Uses talk to organise, sequence and clarify thinking, ideas, feelings and events Looks closely at similarities, differences, patterns and change.			I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.	I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.	I can report and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.	I can use test results to make predictions to set up further comparative and fair tests

COMMUNICATING FINDINGS

Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Describe events in some detail.			I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.	I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.	I can report and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.	I can report and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.