

Working Scientifically Skills



Year 1 and 2

I ask simple questions.

I observe closely, using simple equipment.

I can perform simple tests.

I can identify and classify.

I use observations and ideas to suggest answers to questions.

I can gather and record data to help in answering questions.

Year 3 and 4

I ask relevant questions and using different types of scientific enquiries to answer them.

I set up simple practical enquiries, comparative and fair tests.

I make systematic and careful observations and take accurate measurements using standard units, using a range of equipment.

I gather, record, classify and present data in a variety of ways to help in answering questions.

I record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

I report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

I use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.

I can identify differences, similarities or changes related to scientific ideas and processes.

I use scientific evidence to answer questions or to support my findings.

Year 5 and 6

I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.

I take measurements, using a range of scientific equipment, with accuracy and precision.

I record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs.

I use test results to make predictions to set up further comparative and fair tests.

I can report and present findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations.

I can identify scientific evidence that has been used to support or refute ideas or arguments.

I use simple models to describe scientific ideas.