



# UKS2 Sticky Knowledge: Science Working Scientifically

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

I know how to take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.

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

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

I know how to 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 such as displays and other presentations.

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



# LKS2 Sticky Knowledge: Science Working Scientifically

I know how to ask relevant questions and use different types of scientific enquiries to answer them.

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

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

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

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

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

I know how to identifying differences, similarities or changes related to simple scientific ideas and processes.

I know how to use straightforward scientific evidence to answer questions or to support their findings.



# KS1 Sticky Knowledge: Science Working Scientifically

I know how to ask simple questions and recognise that they can be answered in different ways.

I know how to observe closely, using simple equipment.

I know how to perform simple tests.

I know how to identify and classify.

I know how to use their observations and ideas to suggest answers to questions.

I know how to gather and record data to help in answering questions.