Year Group	Think - Ask Qs and plan enquiry	Commit – Set up the enquiry, observe, measure and record.	Justify – Interpret and report	Reflect - Evaluate
3	Ask Questions and recognise that they can be answered in different ways	Perform modelled enquiries. Perform simple tests independently. Observe closely, using equipment. Gather and record data to help answer questions.	Identify and classify. Use appropriate scientific language to communicate ideas.	Use their observations and ideas to suggest answers to questions.
4	Ask relevant questions and use different types of scientific enquiries to answer them.	Set up practical enquiries. Comparative and fair tests. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment eg. thermometers. Gather, record, classify and present data in a variety of ways to help in answering questions. Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.	Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Identify differences, similarities or changes related to simple scientific ideas and processes	Use results to draw simple conclusions, make predictions for new values, suggest improvements, and raise further questions. Use straightforward scientific evidence to answer questions or support their findings.
5	Plan different types of scientific enquiries to answer their own questions. Be able to identify variables that could affect the results.	Make predictions to set up comparative and fair tests. Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.	Report and present findings from enquiries, including conclusions and causal relationships, in oral and written forms such as displays and other presentations, using appropriate scientific language.	Explain degree of trust in results. Identify and evaluate scientific evidence (their own and others') that has been used to support or refute ideas or arguments.
6	Plan different types of scientific enquiries to answer their own questions. Including recognising and controlling variables where necessary.	Use test results to make predictions to set up further comparative and fair tests. Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.	Report and present findings from enquiries, including conclusions and causal relationships, in oral and written forms such as displays and other presentations, using appropriate scientific language.	Explain degree of trust in results. Identify and evaluate scientific evidence (their own and others') that has been used to support or refute ideas or arguments.