

Key Stage 1 National Curriculum Working Scientifically	
During years 1 and 2, pupils should be taught to use the following practical scientific method	ds, processes and skills through the teaching of the programme of study content:
<ul> <li>asking simple questions and recognising that they can be answered in different ways;</li> <li>observing close ly, using simple equipment;</li> <li>performing simple tests;</li> <li>identifying and classifying;</li> <li>using their observations and ideas to suggest answers to questions; gathering and recording data to help in answering questions.</li> </ul>	
Lower Key Stage 2 National Curriculum Working Scientifically	Upper Key Stage 2 National Curriculum Working Scientifically
<ul> <li>During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: <ul> <li>asking relevant questions and using different types of scientific enquiries to answer them;</li> <li>setting up simple practical enquiries, comparative and fair tests;</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers;</li> <li>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions;</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables;</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions;</li> <li>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions;</li> <li>identifying differences, similarities or changes related to simple scientific ideas and processes;</li> <li>using straightforward scientific evidence to answer questions or to support their findings.</li> </ul> </li> </ul>	<ul> <li>During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: <ul> <li>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary;</li> <li>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate;</li> <li>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs;</li> <li>using test results to make predictions to set up further comparative and fair tests;</li> <li>reporting and presenting 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;</li> <li>identifying scientific evidence that has been used to support or refute ideas or arguments.</li> </ul> </li> </ul>