



Working Scientifically	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Development Matters	Comments and asks questions about aspects of their familiar world such as the place where they live or the natural world. Can talk about some of the things they have observed such as plants, animal, natural and found objects Talks about why things happen and how things work. Developing and understanding of growth, decay and changes over time. Shows care and concern for living things and the environment.	Children should know about similarities and differences in relation to places, objects, materials and living things. They should talk about features of their own immediate environment and how environments might vary from one another. They should make observations of animals and plants and explain why some things occur, and talk about changes.						
Planning				Can recognise simple questions can be answered in different ways.	Is beginning to use different scientific enquiry types to answer/ask relevant questions. Set up simple, fair and practical tests	Can use different scientific enquiry types to answer/ask relevant questions. Set up simple, fair and practical tests	Answer questions by planning different scientific enquiries. Recognise and control variables when appropriate Make predictions using text results to set up further fair and comparative tests.	Develop lines of enquiry by asking questions based on prior knowledge and real-life observations. Make predictions using scientific knowledge and understanding.
Doing			Can compare similarities and difference with regards to objects, materials, living things and places observe animals and plants	Is using simple equipment Observe closely, perform simple tests and identify and classify	Is beginning to make systematic and careful observations using standard units, make accurate measurement using a range of equipment	Can make systematic and careful observations using standard units, make accurate measurement using a range of equipment	Draw conclusions by identifying patterns through interpreting observation, measurement and data in relation to prediction and hypothesise present reasoned explanations. Show understanding of potential sources of error by using	Test predictions by selecting, planning and carrying out a range of scientific enquiries'
Reviewing				Can gather and record data to support answering questions	Is beginning to gather, record, classify and present data to answer questions in a variety of ways. Use simple scientific language, drawings, labelled diagrams, keys, bar charts and	Can record, classify and present data to answer questions in a variety of ways. Use simple scientific language, drawings, labelled diagrams, keys, bar charts and	Record results of increasing complexity and present observations and data using appropriate methods, e.g. scientific diagrams, classification keys,	Using a range of methods for different investigations, make and record observations and measurement and evaluate the reliability of these methods and suggest improvement.



					table to record findings.	table to record findings.	tables, scatter, bar and line charts	
Evaluate			Can discuss differences between own environment and others and explain why some things happen and how it changes.	Can suggest answers to questions using observations made.	Is beginning to form enquiries report on finding, explaining and present results or conclusions, draw simple conclusions from results, make predictions, suggest improvement to answer further questions. Identify differences, similarities and changes related to scientific ideas and process.	Can form enquiries report on finding, explaining and present results or conclusions, draw simple conclusions from results, make predictions, suggest improvement to answer further questions. Identify differences, similarities and changes related to scientific ideas and process.	Record and present findings including conclusions, relationships and explanation. Identify scientific evidence to support or refute scientific ideas or arguments.	Draw conclusions by identifying patterns through interpreting observations, measurement and data in relation to prediction and hypothesise present reasoned explanations Show understanding of potential sources of error by using to evaluate data.