

Working Scientifically

National Curriculum Statements

EYFS	Key Stage One	Key Stage Two
<ul style="list-style-type: none"> I can explore collections of materials with similar and/or different properties. I can talk about what I can see, using a wide vocabulary. I can explore how things work. I can plant seeds and care for growing plants. I can talk about the life cycle of a plant and of different animals. I can describe how I would take care of living things. I can explore and talk about different forces. I can talk about different seasons. 	<ul style="list-style-type: none"> I can ask simple questions and recognising that they can be answered in different ways I can observe closely, using simple equipment performing simple tests I can identify and classify I can use my observations and ideas to suggest answers to questions I can gather and record data to help in answering questions 	<ul style="list-style-type: none"> I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs I can 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 and a degree of trust in 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 can...	EYFS		Key Stage 1	Key Stage 2	
	Nursery	Reception	Year 1 & 2	Year 3 & 4	Year 5 & 6
Planning and Carrying out Experiments	<ul style="list-style-type: none"> I can explore how things work I can observe growth, change and decay 	<ul style="list-style-type: none"> I can explore the natural world around me I can observe and interact with natural processes 	<ul style="list-style-type: none"> I can ask you questions I can group things together by their features I can use a magnifying glass I can perform an experiment 	<ul style="list-style-type: none"> I can ask questions and set up a fair practical experiment to answer them I can take accurate measurements using thermometers I can take accurate measurements using rulers 	<ul style="list-style-type: none"> I can plan different kinds of fair experiments I can tell you how I control variables in my experiments I can take accurate measurements using lots of scientific experiment I can tell you why it is important to take repeated measurements I can make predictions about how other tests will work using my results
Recording and Presenting Data	<ul style="list-style-type: none"> I can talk about what I see, hear and feel. I can give meaning to my marks and drawings. 	<ul style="list-style-type: none"> I can describe and comment on what I see, hear and feel whilst outside I can note and record the weather 	<ul style="list-style-type: none"> I can collect my results and write them down to help me answer questions 	<ul style="list-style-type: none"> I can record data using: <ul style="list-style-type: none"> Charts Graphs Diagrams I can record what I have found out using scientific vocabulary I can write what I have found out in a report I can present what I have found out to the class 	<ul style="list-style-type: none"> I can record data using: <ul style="list-style-type: none"> Labelled scientific diagrams Classification keys Tables Bar charts Line charts I can present my findings in a written report with an introduction, conclusion and results I can present my findings in an oral presentation with an introduction, conclusion and results
Drawing Conclusions	<ul style="list-style-type: none"> I can talk about the differences between materials and changes they notice 	<ul style="list-style-type: none"> I can communicate my understand of my own environment and contrasting environments through conversation and play 	<ul style="list-style-type: none"> I can suggest the answer to a question by making observations I can understand that these questions can be answered in different ways 	<ul style="list-style-type: none"> I can use the results I have found to draw conclusions I can tell you what is different, what has stayed the same and what has changed in an experiment I can use the evidence from my own and other people's experiments to support what I have found I can evaluate experiments and suggest improvements 	<ul style="list-style-type: none"> I can tell you about other experiments that have been done to support or disprove ideas I can identify scientific evidence that has been used to support or refute ideas or arguments

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