



Working Scientifically Progression Map

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Ideas and Evidence	<p>Answer a question with no reason or a non- scientific reason</p> <p>Make contributions to discussions</p> <p>Use pictures, annotated diagrams and lists to find out about ideas</p>	<p>Answer a question using experience</p> <p>Give reasons to support ideas when asked to do so</p> <p>Use simple texts, with help, to find out about scientific ideas</p>	<p>Recognise why it is important to collect data to answer questions</p> <p>Give scientific reasons to support ideas when asked to do so</p> <p>Use simple texts to find information</p>	<p>Recognise that scientific ideas are based on evidence</p> <p>Recognise that it is important to test ideas from observation and measurement</p> <p>Select suitable information from sources provided</p>	<p>Understand how experimental evidence and creative thinking have been combined to provide a scientific explanation</p> <p>Distinguish opinion and scientific evidence and use evidence rather than opinion to support or challenge scientific arguments</p> <p>Select from a range of sources of information when trying to answer a scientific question</p>	<p>Understand how experimental evidence and creative thinking have been combined to provide a scientific explanation</p> <p>Distinguish opinion and scientific evidence and use evidence rather than opinion to support or challenge scientific arguments</p> <p>Select from a range of sources of information when trying to answer a scientific question</p>
Planning	<p>Use Why, What if, How and When to ask questions</p> <p>Can identify variables that could be changed</p> <p>-Make a guess/simple prediction</p>	<p>With help raise questions</p> <p>With help chooses variables and explains fairness</p> <p>Make predictions with a reason based on personal experience</p>	<p>Raise questions</p> <p>Begin to carry out a fair test, recognising and explaining why it is fair</p> <p>Make a prediction with a good reason based on personal experience</p>	<p>With help raise scientific questions containing scientific knowledge and understanding</p> <p>Plan and carry out a fair test and explain why it is fair</p>	<p>Raise questions containing scientific knowledge and understanding</p> <p>Identify key variables to be considered</p> <p>Where appropriate make predictions based on scientific</p>	<p>Raise questions containing scientific knowledge and understanding</p> <p>Identify key variables to be considered</p> <p>Where appropriate make predictions based on scientific</p>



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	With help respond to suggestions about how to find things out With help make suggestions about how to collect data to answer questions	Suggest how to find things out With help, draw up my own format	With help decide an appropriate approach Draw up my own format	Where appropriate, I make predictions based upon knowledge and understanding Decide on an appropriate approach Plan what data to collect	knowledge and understanding Identify several approaches and select the most appropriate Plan to collect sufficient data to gain reliable results	knowledge and understanding Identify several approaches and select the most appropriate Plan to collect sufficient data to gain reliable results
Obtaining and presenting evidence	With help use simple equipment provided to collect data Describe or respond appropriately to observations about: simple features of objects, living things and events Record by drawing what I find out With help present data using simple Venn diagrams, pictograms and block graphs	Use simple equipment provided Make relevant observations because they are structured for me <i>With help can recognise that a reading is uncertain</i> With help record using simple tables Present data using simple Venn diagrams, pictograms and block graphs	Use a range of simple equipment Make relevant observations independently Repeat a reading that I am uncertain about Record using simple tables and tally and frequency charts Present data using bar charts, Venn and Carroll diagrams	Select suitable equipment from a range of similar provided Make a series of observations and with help explain using scientific vocabulary With help include repeat readings With help record in a table that includes repeat readings With help extend presentation of data to include line graphs	Select suitable equipment from a range of similar equipment provided and decide on appropriate accuracy Make a series of observations and explain using scientific vocabulary Include repeat readings Record in a table that includes repeat readings Extend presentation of data to include line graph	Select suitable equipment from a range of similar equipment provided and decide on appropriate accuracy Make a series of observations and explain using scientific vocabulary Include repeat readings Record in a table that includes repeat readings Extend presentation of data to include line graph



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<p>Considering evidence and evaluating</p>	<p>Interpret data from simple Venn diagrams, pictograms and block graphs</p> <p>Make simple statements about my investigation</p> <p>Express surprise when something unexpected happens</p>	<p>Interpret data from bar charts, Venn and Carroll diagrams</p> <p>Make comparative statements about my investigation</p> <p>Say whether what happened was what I expected</p> <p>With help can explain the accuracy of my data</p> <p>With help suggest different ways I could have done things</p>	<p>Interpret data from bar charts, Venn and Carroll diagrams. With help can interpret data from a line graph</p> <p>Make comparative statements linked to the variable being investigated</p> <p>With help can use data to support or contradict a prediction</p> <p>Can explain the accuracy of my data</p> <p>Suggest improvements to my working method</p>	<p>Can interpret from bar charts, Venn, Carroll diagrams and line graphs</p> <p>Make comparative statements linked to the variable being investigated and use personal knowledge and understanding to form an explanation</p> <p>Can use data to support or contradict a prediction</p> <p>Can explain the accuracy of their data and whether I controlled variables</p> <p>Suggest improvements to my working method, giving reasons</p>	<p>Can interpret data from a range of graphs and see relationships between graphs</p> <p>Make comparative statements linked to the variable being investigated and use scientific knowledge and understanding to form an explanation</p> <p>Can use data to support or contradict a prediction and give an explanation</p> <p>Can explain the accuracy of their data, whether they controlled variables and had sufficient evidence</p> <p>Evaluate the effectiveness of my working methods, making practical suggestions for improving them</p>	<p>Can interpret data from a range of graphs and see relationships between graphs</p> <p>Make comparative statements linked to the variable being investigated and use scientific knowledge and understanding to form an explanation</p> <p>Can use data to support or contradict a prediction and give an explanation</p>
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Working Scientifically Progression Map

Vocabulary						
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