

Procedural Knowledge Progression within Science							
Mixed aged year groups	Early Years	KS1 – Year 1 and 2		LKS2 – Year 3 and 4		UKS2 – Year 5 and 6	
Single form entry	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>1. Ideas and evidence in science</b>	<ul style="list-style-type: none"> <li>Ask questions about aspects of their familiar world such as the place where they live or the natural world</li> </ul>	<ul style="list-style-type: none"> <li>to collect evidence to try to answer a question</li> </ul>	<ul style="list-style-type: none"> <li>to collect evidence to try to answer a question</li> </ul>	<ul style="list-style-type: none"> <li>to collect evidence in a variety of contexts to answer a question or test an idea</li> </ul>	<ul style="list-style-type: none"> <li>to collect evidence in a variety of contexts to test an idea or prediction based on their scientific knowledge and understanding</li> </ul>	<ul style="list-style-type: none"> <li>to consider how scientists have combined evidence from observation and measurement with creative thinking to suggest new ideas and explanations for phenomena</li> </ul>	<ul style="list-style-type: none"> <li>to consider how scientists have combined evidence from observation and measurement with creative thinking to suggest new ideas and explanations for phenomena</li> </ul>
<b>2. Investigative skills</b>  <b>Planning</b>	<ul style="list-style-type: none"> <li>Ask questions about aspects of their familiar world such as the place where they live or the natural world</li> <li>Talks about why things happen and how things work</li> </ul>	<ul style="list-style-type: none"> <li>to test ideas suggested to them and say what they think will happen</li> </ul>	<ul style="list-style-type: none"> <li>to suggest some ideas and questions based on simple knowledge and say how they might find out about them;</li> <li>to say what they think might happen</li> <li>to think about and discuss whether comparisons and tests are fair or unfair</li> </ul>	<ul style="list-style-type: none"> <li>in a variety of contexts; to suggest questions and ideas and how to test them;</li> <li>to make predictions about what will happen;</li> <li>to think about how to collect sufficient evidence in some contexts;</li> <li>to consider what makes a test unfair or evidence sufficient and, with help, plan fair tests</li> </ul>	<ul style="list-style-type: none"> <li>to suggest questions that can be tested and make predictions about what will happen, some of which are based on scientific knowledge; to design a fair test or plan how to collect sufficient evidence;</li> <li>in some contexts, to choose what apparatus to use and what to measure</li> </ul>	<ul style="list-style-type: none"> <li>to make predictions of what will happen based on scientific knowledge and understanding, and suggest how to test these;</li> <li>to use knowledge and understanding to plan how to carry out a fair test or how to collect sufficient evidence to test an idea;</li> <li>to identify factors that need to be taken into consideration in different contexts</li> </ul>	<ul style="list-style-type: none"> <li>to decide how to turn ideas into a form that can be tested and, where appropriate, to make predictions using scientific knowledge and understanding;</li> <li>to identify factors that are relevant to a particular situation;</li> <li>to choose what evidence to collect to investigate a question, ensuring the evidence is sufficient;</li> <li>to choose what equipment to use</li> </ul>
<b>- Obtaining and presenting evidence</b>	<ul style="list-style-type: none"> <li>Can talk about the features of their own immediate environment and how environments might vary from one another</li> <li>Makes observations of animals and plants and explains why some things occur, and talks about changes</li> </ul>	<ul style="list-style-type: none"> <li>to make observations using appropriate senses;</li> <li>to make some measurements of length using standard and non-standard measures;</li> <li>to present some findings in simple tables and block graphs</li> </ul>	<ul style="list-style-type: none"> <li>to make observations; to make measurements of length in standard and non-standard measures;</li> <li>to make records of observations; and to present results in tables, drawings and block graphs</li> </ul>	<ul style="list-style-type: none"> <li>to make observations and comparisons;</li> <li>to measure length, volume of liquid and time in standard measures using simple measuring equipment effectively</li> <li>to present results in drawings, bar charts and tables</li> </ul>	<ul style="list-style-type: none"> <li>to make observations and comparisons of relevant features in a variety of contexts;</li> <li>to make measurements of temperature, time and force as well as measurements of length;</li> <li>to begin to think about why measurements of length should be repeated</li> <li>to present results in bar charts and tables</li> </ul>	<ul style="list-style-type: none"> <li>to make relevant observations;</li> <li>to consolidate measurement of volume, temperature, time and length;</li> <li>to measure pulse rate;</li> <li>to think about why observations and measurements should be repeated;</li> <li>to present results in bar charts and line graphs</li> </ul>	<ul style="list-style-type: none"> <li>to make a variety of relevant observations and measurements using simple apparatus correctly; to decide when observations and measurements need to be checked, by repeating, to give more reliable data;</li> <li>to use tables, bar charts and line graphs to present results</li> </ul>
<b>- Considering evidence and evaluating</b>	<ul style="list-style-type: none"> <li>Looks closely at similarities, differences, patterns and change in nature</li> <li>Know about similarities and differences in relation to places, objects, materials and living things</li> </ul>	<ul style="list-style-type: none"> <li>to make simple comparisons and groupings that relate to differences and similarities between living things and objects;</li> <li>in some cases to say what their observations show, and whether it was what they expected;</li> <li>to draw simple conclusions and explain what they did</li> </ul>	<ul style="list-style-type: none"> <li>to make simple comparisons, identifying similarities and differences between living things, objects and events;</li> <li>to say what results show;</li> <li>to say whether their predictions were supported;</li> <li>in some cases to use knowledge</li> <li>to explain what was found out and to draw conclusions;</li> <li>to explain what they did</li> </ul>	<ul style="list-style-type: none"> <li>to draw conclusions from results and begin to use scientific knowledge to suggest explanations for them;</li> <li>to make generalisations and begin to identify simple patterns in results presented in tables</li> </ul>	<ul style="list-style-type: none"> <li>to identify simple trends and patterns in results presented in tables, charts and graphs and to suggest explanations for some of these;</li> <li>to explain what the evidence shows and whether it supports any prediction made;</li> <li>to link the evidence to scientific knowledge and understanding in some contexts</li> </ul>	<ul style="list-style-type: none"> <li>to decide whether results support any prediction;</li> <li>to begin to evaluate repeated results;</li> <li>to recognise and make predictions from patterns in data and suggest explanations for these using scientific knowledge and understanding;</li> <li>to interpret data and think about whether it is sufficient to draw conclusions;</li> </ul>	<ul style="list-style-type: none"> <li>to make comparisons; to evaluate repeated results;</li> <li>to identify patterns in results and results that do not appear to fit the pattern;</li> <li>to use results to draw conclusions and to make further predictions;</li> <li>to suggest and evaluate explanations for these predictions using scientific knowledge and understanding;</li> </ul>

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