

**Subject: Science Overview Grid**

	<b>Progress objective 1: Develop scientific knowledge and understanding.</b>	<b>Progress objective 2 Develop understanding of the processes and methods through scientific enquiry.</b>	<b>Progress objective 3 Understand the implications of science by drawing on evidence and through evaluation.</b>
<b>Pathway 1</b>	<p>Explain scientific processes and phenomena using relevant and specific detail with accurate spelling and grammar.</p> <p>Describe arguments for and against the use of scientific developments in different economic, social or cultural contexts, and how these decisions may be influenced.</p> <p>Use a range of appropriate scientific and mathematical conventions to communicate ideas.</p>	<p>Consistently choose appropriate formats for presenting quantitative and qualitative scientific data that is appropriate to the purpose of the communication.</p> <p>Explain scientific processes and phenomena using abstract ideas and models, make simple connections between abstract ideas and/or models.</p> <p>Formulate questions to carry out investigations including being able to recognise all significant variables (including dependent, independent and control), explain why particular pieces of equipment are appropriate, collect repeated readings at suitable ranges and intervals and produce risk assessments that consult appropriate resources.</p>	<p>Interpret data in a variety of formats and provide accurate explanations for inconsistencies in a sustained way.</p> <p>Draw valid conclusions that utilise more than one piece of relevant evidence, explaining them using scientific knowledge and evaluate the quality of their data.</p>
<b>Pathway 2</b>	<p>Interpret data in a variety of formats and provide accurate explanations for inconsistencies in a sustained way.</p> <p>Draw valid conclusions that utilise more than one piece of relevant evidence, explaining them using scientific knowledge and evaluate the quality of their data.</p>	<p>Decide on appropriate formats for presenting scientific data.</p> <p>Describe scientific processes and phenomena using abstract ideas and models.</p> <p>Plan and carry out investigations including being able to recognise significant variables, describe why particular pieces of equipment are appropriate, collect repeated readings at suitable ranges and intervals and suggest how to control obvious risks during a range of practical situations.</p>	<p>Interpret data in a variety of formats and provide straightforward explanations for inconsistencies.</p> <p>Draw valid conclusions that utilise more than on piece of evidence and evaluate the effectiveness of their methods.</p>
<b>Pathway 3</b>	<p>Interpret data in a variety of formats and provide straightforward explanations for inconsistencies.</p> <p>Draw valid conclusions that utilise more than on piece of evidence and evaluate the effectiveness of their methods.</p>	<p>Select appropriate formats for presenting simple scientific data such as tables and bar charts</p> <p>Describe simple scientific processes and phenomena using scientific ideas and models.</p> <p>Plan and carry out investigations including being able to recognise some significant variables, select appropriate equipment, collect readings identifying the ranges and intervals and identify obvious risks during a range of practical situations.</p> <p>At the bottom of the pathway, there may be some errors and misconceptions evident, and students may require prompting and support to achieve the objectives.</p>	<p>Identify patterns and inconsistencies in data.</p> <p>Draw simple conclusions and suggest basic ways to improve methods with reasons.</p>