

Year 7 Science					
	Embarking	Emerging	Developing	Securing	Mastering
<b>Knowledge and understanding</b>	<ul style="list-style-type: none"> <li>Answers show some knowledge of basic information and simple understanding.</li> <li>Answers are poorly organised, with almost no specialist terms and their use, demonstrating a general lack of understanding of their meaning.</li> <li>Some specialist terms are identified.</li> </ul>	<ul style="list-style-type: none"> <li>Answers show knowledge of basic information and understanding.</li> <li>The answer has some structure and organisation, use of specialist terms has been attempted but not always accurately.</li> <li>Some specialist terms are used in order to describe processes in science.</li> </ul>	<ul style="list-style-type: none"> <li>Answers show a good knowledge and clear understanding.</li> <li>The answer has some structure and organisation, use of specialist terms has been attempted but not always accurately and some detail is given.</li> <li>Some specialist terms are used in order to describe and explain processes in science.</li> </ul>	<ul style="list-style-type: none"> <li>Answers show a high level of knowledge and clear understanding.</li> <li>There is detailed understanding, supported by relevant evidence and examples.</li> <li>Scientific ideas, models and theories from different topics are linked when applying knowledge to familiar situations.</li> <li>Specialist terms are used in order to describe and explain processes in science.</li> </ul>	<ul style="list-style-type: none"> <li>Answers show a high level of knowledge, which is appropriately contextualised.</li> <li>There is highly detailed understanding, supported by relevant evidence and examples.</li> <li>Scientific ideas, models and theories from different topics are linked when applying knowledge to unfamiliar situations.</li> <li>Answers are coherent and in an organised, logical sequence, containing a range of appropriate or relevant specialist terms, usually used accurately.</li> </ul>
<b>Working scientifically</b>	<ul style="list-style-type: none"> <li>Can follow simple instructions in an investigation with support.</li> <li>Can understand risks in an investigation, when they are explained.</li> <li>Able to identify some variables in an investigation with support (may be able to do this without the key terms).</li> <li>Can record data in a table given to them.</li> <li>Is sometimes able to identify some patterns in data presented in a simple format with support.</li> <li>Is able to draw some simple conclusions from data collected with support.</li> <li>Is able to suggest basic improvements to the method with support.</li> </ul>	<ul style="list-style-type: none"> <li>Can follow simple instructions in an investigation.</li> <li>Can identify some risks in an experiment with support.</li> <li>Able to identify some variables in an investigation.</li> <li>Can record data in a table with support.</li> <li>Is able to identify some patterns in data presented in a simple format.</li> <li>Is able to draw some conclusions from data collected with some support.</li> <li>Can describe some ways of modifying the method to improve reliability and validity of the investigation with support.</li> </ul>	<ul style="list-style-type: none"> <li>Can plan a simple experiment.</li> <li>Can identify some risks in an experiment.</li> <li>Able to identify most of the variables in an investigation</li> <li>Can record data in appropriate formats with some support.</li> <li>Is able to identify some patterns in data presented in various formats, including line graphs.</li> <li>Is able to draw conclusions which are based on more than one piece of supporting evidence with support.</li> <li>Is able to draw conclusions from data collected.</li> <li>Can describe some ways of modifying the method to improve reliability and validity of the investigation.</li> </ul>	<ul style="list-style-type: none"> <li>Can plan a simple experiment to investigate a hypothesis.</li> <li>Can identify risks in an experiment and describe how to minimise these.</li> <li>Able to identify the variables in an investigation.</li> <li>Can record data in appropriate formats.</li> <li>Is able to identify patterns in data presented in various formats, including line graphs.</li> <li>Can explain conclusions using scientific understanding and knowledge with support.</li> <li>Can describe ways of modifying the method to improve reliability and validity of the investigation.</li> </ul>	<ul style="list-style-type: none"> <li>Can plan an experiment to investigate a hypothesis in order to obtain valid results.</li> <li>Can identify and explain risks in an experiment.</li> <li>Able to identify the variables in an investigation and begin to justify the control variables.</li> <li>Can record data clearly and accurately in appropriate formats.</li> <li>Is able to identify patterns in data presented in various formats, including line graphs and is beginning to spot anomalies.</li> <li>Can explain conclusions using scientific understanding and knowledge with some support.</li> <li>Can explain ways of modifying the method to improve reliability and validity of the investigation.</li> </ul>