



## Grade Descriptors for GCSEs Graded 9-1: Science

9	<p>To achieve a Grade 9 candidates will be able to:</p> <ul style="list-style-type: none"> <li>• Demonstrate relevant and comprehensive <b>further</b> knowledge and understanding and apply these correctly to both familiar and unfamiliar contexts using accurate scientific terminology</li> <li>• Use and rearrange multiple step mathematical equations to perform complex scientific calculations.</li> <li>• In depth critical analysis of qualitative and quantitative data to draw detailed logical, well-evidenced conclusions which link to further knowledge and examples.</li> <li>• critically evaluate and refine methodologies, and judge the validity of scientific conclusions then providing alternative conclusions from secondary data.</li> </ul>
8	<p>To achieve a Grade 8 candidates will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate relevant and comprehensive knowledge and understanding and apply these correctly to both familiar and unfamiliar contexts using accurate scientific terminology</li> <li>• use a range of mathematical skills to perform complex scientific calculations</li> <li>• critically analyse qualitative and quantitative data to draw logical, well-evidenced conclusions</li> <li>• critically evaluate and refine methodologies, and judge the validity of scientific conclusions</li> </ul>
7	<p>To achieve a Grade 7 candidates will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate broadened knowledge and understanding and apply these correctly to familiar and unfamiliar contexts using accurate scientific terminology</li> <li>• Apply and re-arrange scientific equations to perform complex multistep calculations.</li> <li>• Analyse qualitative and quantitative data to draw detailed relevant and accurate conclusions supported by sufficient evidence</li> <li>•</li> </ul>
6	<p>To achieve a Grade 6 candidates will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate accurate and appropriate knowledge and understanding and apply these correctly to familiar and unfamiliar contexts, using accurate scientific terminology</li> <li>• use appropriate mathematical skills to perform multi-step calculations</li> <li>• analyse qualitative and quantitative data to draw relevant and accurate conclusions supported by sufficient evidence</li> <li>• evaluate methodologies to suggest detailed improvements to experimental methods, and in-depth comment on scientific conclusions</li> </ul>
5	<p>To achieve a Grade 5 candidates will be able to:</p> <ul style="list-style-type: none"> <li>• demonstrate mostly accurate and appropriate knowledge and understanding and apply these mostly correctly to familiar and unfamiliar contexts, using mostly accurate scientific terminology</li> <li>• use appropriate mathematical skills to perform multi-step calculations</li> <li>• analyse qualitative and quantitative data to draw plausible conclusions supported by some evidence</li> <li>• evaluate methodologies to suggest improvements to experimental methods, and comment on scientific conclusions</li> </ul>
4	<p>To achieve a Grade 4 candidates will be able to:</p>



	<ul style="list-style-type: none"><li>• demonstrate some accurate and appropriate knowledge and understanding and apply these mostly correctly to familiar contexts, using some accurate scientific terminology</li><li>• use appropriate mathematical skills to perform calculations</li><li>• analyse qualitative and quantitative data to draw simple conclusions supported by limited evidence</li><li>• comment on methodologies to suggest improvements to experimental methods, and simple comment on scientific conclusions</li></ul>
3	To achieve a Grade 3 candidates will be able to: <ul style="list-style-type: none"><li>• demonstrate relevant scientific knowledge and understanding using some relevant scientific terminology</li><li>• perform basic calculations with some appropriate mathematical skills</li><li>• draw conclusions from qualitative or quantitative data</li><li>• make basic comments relating to experimental methods and suggest some improvements</li></ul>
2	To achieve a Grade 2 candidates will be able to: <ul style="list-style-type: none"><li>• demonstrate some relevant scientific knowledge and understanding using limited scientific terminology</li><li>• perform basic calculations</li><li>• draw simple conclusions from qualitative or quantitative data</li><li>• make basic comments relating to experimental methods</li></ul>
1	To achieve a Grade 1 candidates will be able to: <ul style="list-style-type: none"><li>• demonstrate some relevant scientific knowledge</li><li>• attempt perform basic calculations</li><li>• draw simple conclusions from qualitative data</li><li>• make basic comments relating to experimental methods</li></ul>