

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

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