

KS3 GRADE DESCRIPTORS FOR SCIENCE



	<b>Scientific knowledge</b> Demonstrate knowledge and understanding of scientific ideas, techniques and procedures.	<b>Scientific enquiry</b> Demonstrate knowledge and understanding of scientific enquiry, techniques and procedures.	<b>Analysis &amp; conclusions</b> Analyse information and ideas to: interpret and evaluate; make judgements and draw conclusions.	<b>Numeracy</b> Apply appropriate mathematical skills to a given context or problem; choose appropriate ways of collecting and presenting data.
<b>Advanced</b>	<p>I always use scientific key words correctly and can show my comprehensive knowledge in topics that I already know and understand how it links to new ideas.</p> <p>I can use my knowledge of root words, prefixes and suffixes to break down new scientific key words.</p> <p>I can explain things clearly and accurately using good detail and justify my points using scientific evidence and language.</p>	<p>I can carefully assess and improve methods, using my knowledge to justify why the scientific conclusions are accurate and valid.</p> <p>I can construct a suitable results table for my data and observations.</p> <p>I can write a detailed method using imperative verbs that others can follow.</p>	<p>I can analyse information, in different formats, and from different sources, to make scientific conclusions. I justify my answers with my scientific knowledge.</p> <p>I can give detailed evaluations of my own work and the work of others.</p>	<p>I can use maths skills to solve complex problems and I can re-arrange scientific equations.</p> <p>I understand the difference between continuous and discontinuous data and I am able to select the correct type of graph to draw based on the data I have collected.</p> <p>My graphs always include appropriate scales, axes labels, units and a line of best fit.</p>
<b>Secure</b>	<p>I am able to use most scientific key words correctly and use my knowledge in topics that I already know and apply it to unfamiliar ideas.</p> <p>I can use my knowledge of some root words, prefixes and suffixes to try and break down new scientific key words.</p> <p>I can explain things well with clear and detailed descriptions that make sense and are easy to understand.</p>	<p>I can share ideas to make experiments better and give reasons why the results are correct or not.</p> <p>Safely follow a simple method and record data or observations in a suitable table.</p> <p>Write a method for a simple experiment.</p>	<p>I can use different kinds of data, like descriptions and numbers, to form conclusions. My answers make sense and are backed up by facts.</p> <p>I can pick out obvious strengths and weaknesses of data in my evaluations.</p>	<p>I can use the right maths skills to perform more difficult calculations, including calculating a mean, and I can substitute correct values into simple scientific equations.</p> <p>I am able to select the correct type of graph to draw based on the data I have collected.</p> <p>My graphs mostly include appropriate scales, axes labels and a line of best fit.</p>
<b>Developing</b>	<p>I am able to use some scientific key words correctly and use my knowledge in topics that I already know and some that I don't know yet.</p> <p>I can recognise some common root words, prefixes and suffixes for scientific key words.</p> <p>I can describe most things in a clear and organised way, in some detail. I can try to explain some simple ideas.</p>	<p>I can share ideas to make experiments better and talk about whether the results are correct or not.</p> <p>I can identify scientific variables in an experiment.</p> <p>I can identify the main pieces of science equipment that I used in my experiments.</p>	<p>I can make simple conclusions by looking at information that's presented as words or numbers and then make decisions based on the evidence I have.</p>	<p>I can use the right maths skills to perform simple calculations.</p> <p>I can add scales on axes with support and plot data to a graph.</p>
<b>Emerging</b>	<p>I can show my understanding of science using simple key words.</p> <p>I can recognise some scientific key words.</p>	<p>I can talk about how I have done a science experiment and what I have noticed.</p> <p>I know the difference between the scientific variables.</p> <p>I can name basic lab equipment and understand how to use it safely.</p>	<p>I can make simple conclusions by looking at information that's presented as words or numbers.</p>	<p>I can perform some basic calculations.</p> <p>I can fill in missing data on a graph template.</p>