

### Year 7 - Science

<b>Curriculum intent</b>	<p>All students will develop knowledge which helps them in their own lives and to understand the world in which they live. Students will be confident with their knowledge, allowing them to inform others and to problem solve through scientific enquiry. To prepare students for the future they will be curious and equipped to question and challenge information they are presented with.</p> <p>Through the curriculum, key themes of knowledge are revisited each year, with the knowledge being developed over time. The themes link to biology, chemistry and physics and are carefully sequenced in order to ensure that students have all of the powerful knowledge needed to move onto the next theme. This will ensure that students develop a secure long term memory over time with flexible knowledge that can be applied to different contexts.</p>					
<b>Term</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Knowledge</b>	Students will learn about Working scientifically and Cells.	Students will learn about Particles and Forces.	Students will learn about Tissues and Organs, and Atoms, Elements and Compounds.	Students will learn about Energy transfers.	Students will learn about Reproduction.	Students will learn about Mixtures.
<b>Skills</b>	<p>Working scientifically: developing scientific attitudes, experimental skills and investigations, analysis and evaluation and using a range of measurements.</p> <p>Maths skills – handling data, graphs and using units.</p>	<p>Working scientifically: developing scientific attitudes, experimental skills and investigations, analysis and evaluation and using a range of measurements.</p> <p>Maths skills – handling data, graphs and using units.</p>	<p>Working scientifically: developing scientific attitudes, experimental skills and investigations, analysis and evaluation and using a range of measurements.</p> <p>Maths skills – handling data, graphs and using units.</p>	<p>Working scientifically: developing scientific attitudes, experimental skills and investigations, analysis and evaluation and using a range of measurements.</p> <p>Maths skills – handling data, graphs and using units.</p>	<p>Working scientifically: developing scientific attitudes, experimental skills and investigations, analysis and evaluation and using a range of measurements.</p> <p>Maths skills – handling data, graphs and using units.</p>	<p>Working scientifically: developing scientific attitudes, experimental skills and investigations, analysis and evaluation and using a range of measurements.</p> <p>Maths skills – handling data, graphs and using units.</p>

Assessments	Half term assessment.	Half term assessment.	Half term assessment.	Half term assessment.	Half term assessment.	Half term assessment.
<b>Curiosity</b>	<p>Books:</p> <p>The illustrated Science Book  <a href="https://www.amazon.co.uk/dp/1409539105/?ref=cm_sw_r_pi_dp_Jmakvb0FBK7MH">https://www.amazon.co.uk/dp/1409539105/?ref=cm_sw_r_pi_dp_Jmakvb0FBK7MH</a></p> <p>Bad Science- Ben Goldacre  <a href="https://www.amazon.co.uk/gp/product/000728487X?ref=cm_sw_r_awd_8h0cvb10ARC15">https://www.amazon.co.uk/gp/product/000728487X?ref=cm_sw_r_awd_8h0cvb10ARC15</a></p> <p>Why is snott green?  <a href="https://www.amazon.co.uk/dp/0330448528/?ref=cm_sw_r_pi_dp_7lakvb0C0NBZV">https://www.amazon.co.uk/dp/0330448528/?ref=cm_sw_r_pi_dp_7lakvb0C0NBZV</a></p> <p>World of Science  <a href="https://www.amazon.co.uk/World-Science-Various/dp/1842368036/ref=sr_1_1?s=books&amp;ie=UTF8&amp;qid=1432298879&amp;sr=1-1">https://www.amazon.co.uk/World-Science-Various/dp/1842368036/ref=sr_1_1?s=books&amp;ie=UTF8&amp;qid=1432298879&amp;sr=1-1</a></p> <p>Horrible Science of Everything  <a href="https://www.amazon.co.uk/Horrible-Science-Everything-Nick-Arnold/dp/1407115499/ref=pd_bxgy_b_img_y">https://www.amazon.co.uk/Horrible-Science-Everything-Nick-Arnold/dp/1407115499/ref=pd_bxgy_b_img_y</a></p> <p>Home Science Experiments:  Cool Science Tricks  <a href="https://www.amazon.co.uk/gp/product/1907554696?ref=cm_sw_r_awd_G4Zcvb1PP9WE3">https://www.amazon.co.uk/gp/product/1907554696?ref=cm_sw_r_awd_G4Zcvb1PP9WE3</a></p> <p>Science experiments to do at home  <a href="https://www.sciencefun.org/kidszone/experiments/">https://www.sciencefun.org/kidszone/experiments/</a></p> <p>Science in the news:  <a href="https://www.iflscience.com/">https://www.iflscience.com/</a>  <a href="https://theday.co.uk/">https://theday.co.uk/</a>  <a href="https://www.bbc.co.uk/news/science_and_environment">https://www.bbc.co.uk/news/science_and_environment</a></p>					

