



**Vision** The purpose of KS3 is to embed the building blocks of scientific knowledge and enquiry, and to inspire a sense of wonder and awe at the world around us.

In year 9 the curriculum looks at applications of Biology in today's world and explores how these discoveries were made. There is an end of KS3 formal assessment for which revision materials and guidance are provided. Students then begin their Biology GCSE course with content that is common to both the Double award and Triple award courses. Students will begin their options course in September of Year 10.

As well the assessments detailed below there will be a baseline test in the Christmas term that will be used to help identify suitable candidates for the triple science GCSE.

	<b>Foci</b>	<b>Assessment</b>	<b>Knowledge Organiser</b>
<b>Unit 1</b>	<p>Biology New Technology</p> <p>This topic looks at the advances that have been made in recent years in gene technology, treatment of genetic disorders, cloning, selective breeding and genetic engineering. It includes a recap of Inheritance, chromosomes, DNA, and genes.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<b>Biology New Technology</b>
<b>Unit 2</b>	<p><b>Biology Turning Points</b></p> <p>Understand that scientific methods and theories develop as scientists modify earlier explanations to take account of new evidence and ideas, by looking at the discoveries made by Charles Darwin, Alexander Flemming, Edward Jenner, Watson &amp; Crick. Then consider how these discoveries have led to the development of vaccines, antibiotics, and antibiotic resistance.</p>	<p>Formative assessments throughout the topic including multiple choice questions, extended writing, and practical work</p> <p>End of topic Test</p>	<b>Biology Turning Points</b>
<b>Unit 3</b>	<p>To review work from years 7,8 and 9 including working scientifically concepts and practical work.</p>	<p>End of Key Stage 3 written assessment.</p>	<b>Revision Booklet Working Scientifically</b>
<b>Unit 4</b>	<p><b>AQA KS4 GCSE - Cell Biology</b></p> <p>Cell structure, microscopy, specialized cells, stem cells, cell division, transport in cells (diffusion, osmosis &amp; active transport).</p> <ul style="list-style-type: none"> <li>Practical work</li> </ul>	<p>Formative assessments throughout the topic including multiple choice questions, past exam question practice, extended writing, and practical work</p> <p>End of topic Test</p>	<b>Cell Biology</b>