

Exam board: Pearson BTEC Level 3 Applied Science		
	Year 12	Year 13
Autumn term	<p><b>Unit 2</b></p> <ul style="list-style-type: none"> <li>Laboratory equipment and its calibration</li> <li>Preparation and standardisation of solutions using titration</li> <li>Colorimetry</li> <li>practical application of measurements of heat</li> <li>Construction and interpretation of cooling curves</li> <li>Chromatographic techniques</li> <li>Application of chromatography</li> <li>Interpretation of a chromatogram</li> <li>Personal responsibility</li> <li>Interpersonal skills</li> <li>Professional practice</li> </ul>	<p><b>Unit 3</b></p> <ul style="list-style-type: none"> <li>Planning a scientific investigation</li> <li>Data collection, processing and analysis/interpretation</li> <li>Drawing conclusions and evaluation</li> <li>Protein structure</li> <li>Enzymes as biological catalysts in chemical reactions</li> <li>Diffusion of molecules</li> <li>Plants and their environment</li> <li>Fuels</li> <li>Calculation of heat energy</li> </ul>
Spring term	<p><b>Unit 1</b></p> <ul style="list-style-type: none"> <li>Electronic structure of atoms</li> <li>Bonding</li> <li>Intermolecular forces</li> <li>Calculating quantities in chemical reactions</li> <li>Structure of the periodic table</li> <li>Trends within physical &amp; chemical properties of elements</li> <li>Cell theory</li> <li>Cell specialisation</li> <li>Tissue structure and function</li> <li>Working with waves</li> <li>Waves in communication</li> <li>Electromagnetic waves in communications</li> </ul>	<p><b>Unit 8</b></p> <ul style="list-style-type: none"> <li>Structure of musculoskeletal system</li> <li>Function of musculoskeletal system</li> <li>Health matters and treatments related to the musculoskeletal system</li> <li>Structure of the digestive system</li> <li>function of the digestive system</li> <li>Health matters and treatments related to the digestive system</li> <li>Structure of the lymphatic system</li> <li>Function of the lymphatic system</li> <li>Health matters and treatments related to the lymphatic system</li> </ul>

## CURRICULUM OVERVIEW: KS5 Applied Science

<b>Summer term</b>	<ul style="list-style-type: none"> <li>• Revision (preparation for unit 1 exam)</li> <li>• External exams</li> <li>• Preparation for unit 3 &amp; 4</li> </ul>	<ul style="list-style-type: none"> <li>• Completion of coursework</li> </ul>
<b>Assessment</b>	<ul style="list-style-type: none"> <li>• Students sit 3 x 45 minute exams covering all unit 1 content in May. These are externally assessed and results are received in August.</li> <li>• Students are assessed throughout the year internally (please see the school assessment calendar for more information).</li> <li>• Students complete 4 assignments on unit 2, which are assessed internally</li> </ul>	<ul style="list-style-type: none"> <li>• Students complete assessed practical which is 3 hours long and then sit a 1.5 hour exams in January and results are received in April.</li> <li>• Students are assessed throughout the year internally (please see school assessment calendar for more information).</li> <li>• Students complete 3 assignments on unit 8, which are assessed internally</li> </ul>