

Year 10: Combined and Triple Award Science

<p>Biology:</p> <p><i>Key Concepts in Biology</i> <i>Cells and Control</i> <i>Genetics</i> <i>Natural Selection and Genetic modification</i> <i>Health, Disease and the Development of Medicines</i></p> <p><i>(sub-topics under these main topic headings will differ slightly for Combined and Triple award courses for each of the three science disciplines)</i></p>	<p style="text-align: center;">Expo 2020 'Challenge' Activity – 'Connecting Minds, Creating the future' Opportunity, Mobility, Sustainability</p> <p><i>Opportunity is at the heart of development, ensuring that new horizons are opened to individuals and communities to help them meet their current and their future aspirations.</i> <i>Mobility is the bridge to opportunity by connecting people, goods and ideas and providing easier access to markets, knowledge and innovation</i> <i>Sustainability guides how we grow opportunity by doing more with less, while protecting and preserving our environment for future generations</i></p>
<p>Chemistry:</p> <p><i>States of matter and methods of purifying substances</i> <i>Atomic Structure</i> <i>The Periodic Table</i> <i>Bonding and types of substance</i> <i>Acids and Alkalis</i> <i>Calculations involving masses</i> <i>Electrolytic processes</i> <i>Quantitative analysis</i></p>	<p>Cross Curricular Links/Projects</p> <p><i>Mathematics, PE.</i></p>
<p>Physics:</p> <p>Motion Motion and Forces Conservation of Energy Waves Light and the EM spectrum Radioactivity Astronomy</p>	<p>Assessment Format:</p> <p>Assessments will be a mix of multiple-choice, short answer, long answer and practical application questions</p> <p>Key Subject Specific Skills: <i>Practical planning, obtaining and analysing data, evaluating a practical method</i> <i>Students will complete a series of core practicals that will be examined.</i></p>
<p>Assessment Objective Overview</p> <p>AO1 Demonstrate knowledge and understanding of: • scientific ideas • scientific techniques and procedures.</p> <p>AO2 Apply knowledge and understanding of: • scientific ideas • scientific enquiry, techniques and procedures.</p> <p>AO3 Analyse information and ideas to: • interpret and evaluate • make judgements and draw conclusions • develop and improve experimental procedures.</p>	<p>Links for Home Learning/Extension Resources:</p> <p><i>BBC Bitesize</i> <i>Pearson Edexcel</i> <i>Pearson/Edexcel Lab book</i> <i>Pearson/Edexcel Homework and Skills book</i></p>