

Year 11: Combined and Triple Award Science

<p>Biology:</p> <p><i>Plant Structures and their functions</i> <i>Animal coordination, control and homeostasis</i> <i>Exchange and transport in animals</i> <i>Ecosystem and material cycles</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>Groups in the periodic table, reaction rates, energy changes in reactions <i>Fuels, the Earth and atmospheric science</i> <i>Hydrocarbons, alcohols, carboxylic acids and polymers</i> <i>Quantitative analysis, tests for ions, bulk and surface properties of matter including nanoparticles.</i></p>	<p>Cross Curricular Links/Projects</p> <p><i>Mathematics</i></p>
<p>Physics:</p> <p><i>Energy – forces doing work and forces and their effects</i> <i>Electricity and circuits and Static electricity</i> <i>Magnetism and the motor effect, electromagnetic induction</i> <i>Particle model, forces and matter</i></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>



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