

Autumn 1 Unit P2 Physics	Autumn 2 Unit P2 continued	Spring 1 Unit B2 Biology	Spring 2 Unit B2 continued	Summer 1 Unit C1 Chemistry	Summer 2 Unit C1 Physics Practice Controlled Assessments Final End of Year Exam
<p>Students will discover how circuits work and how the electricity in your house is generated. You will learn why it is important to insulate a house and what you pay for when you pay your electricity bill.</p> <p>Skills developed are: Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work, paying attention to health and safety.</p> <p>Recording data in an organised way.</p>	<p>Work on this unit continues with an emphasis of exploring how to use graphs to tell a story, and how forces explain gas and air pressure.</p> <p>Skills developed are: Interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions.</p> <p>Make predictions using scientific knowledge and understanding.</p>	<p>This unit can be challenging for some students where there is a combined focus on literacy skills.</p> <p>Students compare the effects of healthy and unhealthy lifestyles on the body. Students look at why organisms need energy to function effectively</p> <p>Skills developed are: Interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions.</p> <p>Evaluate data, showing awareness of potential sources of random and systematic error.</p>	<p>The latter part of this unit is investigating the differences that exist between organisms, and why this is important for their survival.</p> <p>Skills developed are: Extending answers using keywords and logical sequencing. Connectives and SPAG are particular components of assessment in this term.</p> <p>Understand that scientific methods and theories develop as earlier explanations are modified to take account of new evidence and ideas, together with the importance of publishing results and peer review.</p>	<p>Students link where we get the materials we need with the structure of the Earth and rocks in the crust.</p> <p>Students will discover how to separate mixtures and use chemical reaction to obtain the materials we need from both the crust and atmosphere.</p> <p>Skills developed are: Make and record observations and measurements using a range of methods for different investigations and evaluate the reliability of methods and suggest possible improvements.</p>	<p>Students continue their study of this unit by exploring patterns in chemical reactions and the properties of elements – particularly metals.</p> <p>Skills developed are: Make predictions using scientific knowledge and understanding – particularly the periodic table.</p> <p>Complete review of Working Scientifically skills as previously shown</p> <p>Review of all concepts Study skills</p>

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Scheme of Work Outline – Year 7