

| Autumn 1 Unit C1 Chemistry | Autumn 2 Unit C1 Chemistry continued | Spring 1 Unit P1 Physics | Spring 2 Unit P1 Physics continued | Summer 1 Unit B1 Biology | Summer 2 Unit B1 Biology Practice Controlled Assessments Final End of Year Exam |
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| <p>Students will discover how circuits work and how to extract metals from their Earth's crust, and how to make metal alloys with perfect properties for particular purposes. They will learn where limestone comes from and about the chemical reactions that link cement and concrete.</p> <p>Students continue with the exploration of how the compounds of crude oil are separated to make the useful hydrocarbons that we need.</p> <p>Skills developed are: All of the working Scientifically skills are further developed (see Year 7/8 SOW).</p> | <p>This unit continues with how crude oil is utilised to provide us with a huge variety of plastics. Students learn how their impact on the environment can be minimised and about their renewable replacements.</p> <p>Finally the concept of tectonic plate movement and its consequences are explored</p> <p>Skills developed are: All of the working Scientifically skills are further developed (see Year 7/8 SOW).</p> <p>Extending answers using keywords and logical sequencing will be a continuous development process.</p> | <p>This unit focuses on the different ways that energy can be transferred to the outside – conduction, convection, radiation, evaporation and condensation. Students learn how to minimise heat loss in homes and how heat transfer is maximised in other appliances.</p> <p>Students are also shown how the different appliances in their home transfer electrical energy into a range of different energy forms, and how much these appliances cost to run.</p> <p>Skills developed are: Performing calculations using various equations.</p> | <p>Finally, P1 allows students to investigate how electricity is generated and review alternative technologies (wind/solar/geothermal etc) .</p> <p>Students also learn about the behaviour of waves – sound and microwaves and the rest of the electromagnetic spectrum. Theories about the development of the Universe are also explored.</p> <p>Skills developed are: Performing calculations using various equations.</p> <p>Rearranging equations.</p> <p>Organising mathematical work logically and utilising</p> | <p>Students learn what to eat and how to exercise to stay healthy.</p> <p>Work on infectious diseases and how your immune system and medicines deal with them is done.</p> <p>Students explore the key role of hormones in your growth and development and then how drugs affect your health.</p> <p>Skills developed are: All of the working Scientifically skills are further developed (see year 7/8 SOW).</p> <p>Extending answers using keywords and logical sequencing will be a continuous development process.</p> | <p>B2 continues by looking at the distribution of organisms and how this can be affected by natural conditions changing and environmental changes as a result of human activity.</p> <p>Students study the process of reproduction and how humans can now manipulate it. Students particularly focus on controversial issues surround cloning.</p> <p>The concepts of variation, classification and evolution are explored in detail.</p> <p>Skills developed are: Complete review of Working Scientifically skills as previously shown.</p> |

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| Extending answers using keywords and logical sequencing will be a continuous development process. | | Rearranging equations. Organising mathematical work logically and utilising correct units. | correct units. | | Review of all concepts Study skills. |
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Scheme of Work Outline – Year 7