

Curriculum Overview: Year 10 Trilogy Science

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>Topics covered → Biology - Communicable diseases and immune system.</p> <p>Physics - Energy</p>	<p>Topics covered → Physics - Introduction to electricity.</p> <p>Chemistry – Bonding</p> <p>Biology – Response to infection</p>	<p>Topics covered → Chemistry - Chemical changes</p> <p>Physics - Electricity in the home.</p>	<p>Topics covered → Physics – Particle model of matter.</p> <p>Biology - Photosynthesis and respiration.</p>	<p>Topics covered → Chemistry – Quantitative Chemistry.</p> <p>Chemistry - Energy changes</p> <p>Physics - Atomic structure.</p>	<p>Topics covered → Chemistry - Purity and chemical analysis.</p> <p>Biology – Homeostasis</p>
<p>Assessments – w/b 21/09/2020 C1/P1/B1 Mini Mock</p>	<p>Assessments – w/b 14/12/2020 Any topic from Autumn 1 and 2</p>	<p>Assessments – w/b 08/02/2021 Any topic from Autumn 2 and Spring 1</p>	<p>Assessments – w/b 22/03/2021 Any topic from Spring 1 and 2.</p>	<p>Assessments – w/b 17/05/2021 Any topic from Spring 1 and Summer 1.</p>	<p>Assessments – w/b 21/06/2021 GCSE Paper 1 Mock</p>
<p>Links to prior learning - cells, data analysis, blood and circulatory system.</p> <p>- Renewable and non-renewable energy.</p> <p>Stretch and Challenge Enquiry How do my choices effect the environment and lead to global warming?</p>	<p>Links to prior learning - Series and parallel circuits.</p> <p>- elements, compounds and molecules.</p> <p>Stretch and Challenge Enquiry. Where does a material get its properties?</p>	<p>Links to prior learning - Acids and Alkalis - reactivity series.</p> <p>- Current and voltage.</p> <p>Stretch and Challenge Enquiry What is the importance of the national grid? Why laptops have an adaptor on the charger.</p>	<p>Links to prior learning - Solids, liquids and gases. - Transitions between states of matter.</p> <p>- Photosynthesis - Aerobic and anaerobic respiration.</p> <p>Stretch and Challenge Enquiry Why is the recipe for making bread and alcohol so specific? Try making bread at home.</p>	<p>Links to prior learning - maths skills – addition - Endo and exothermic reactions.</p> <p>- Atom structure (C1)</p> <p>Stretch and Challenge Enquiry Why do we put salt on the pavement when it is icy?</p>	<p>Links to prior learning - elements, compound and mixtures.</p> <p>- gas testing</p> <p>Stretch and Challenge Enquiry Why does gold come in 24k, 18k and 14k?</p>
<p>Equipment Needed Pen, Pencil, ruler, calculator.</p>	<p>Wider Reading and websites Kay Science → https://www.kayscience.com/</p> <p>SENECA → https://app.senecalearning.com/dashboard/courses/add?Price=Free</p> <p>Science Journals for Kids → https://www.sciencejournalforkids.org/</p>			<p>Family activities Watch the news.</p> <p>Beat the Parent – make flashcards and compete with your child. Who can get the most correct answers?</p> <p>Support your child using Educake for home learning.</p>	

The Bemrose School Curriculum

