



Curriculum Plan
2016

Autumn Term	Spring Term	Summer Term
<p>Controlled Assessment Completion</p> <p>Atomic Structure</p> <ul style="list-style-type: none"> • Atoms, Elements and Compounds • Isotopes • Electronic structure/Configurations • Balanced Equations • Ions and Ion formation • Separating Mixtures <p>The Periodic Table</p> <ul style="list-style-type: none"> • The Periodic Table and Development • Metals • Properties of Metals and Alloys • Transition Metals • Group 1/7/0 	<p>Crude Oil and Fuels</p> <ul style="list-style-type: none"> • Fraction distillation of Crude Oil • Properties and Uses of Fractions • Environmental problems of Crude Oil • Alternative fuels • Cracking • Plant Oils and Uses <p>Reactions of acids</p> <ul style="list-style-type: none"> • The pH scale and neutralisation • Reactivity Series and Metal Reactions • Reactions of metals with acids • Neutralisation of acids and Making salts • Soluble and Insoluble salts (Salts from Metals, Metal oxides and Hydroxides and Ammonia) 	<p>Quantitative Chemistry</p> <ul style="list-style-type: none"> • RAM and RFM • Balancing Equations • Empirical Formula • Predicting Masses • Moles - Solids • Atom Economy and Percentage Yield <p>Analytical Techniques</p> <ul style="list-style-type: none"> • Testing for Gases (Cl_2, O_2, CO_2 and H_2) • Qualitative Analysis - Flame tests and NaOH test • Qualitative Analysis - Anions • Chromatography/ Instrumental methods of analysis
<p>HALF TERM</p>		

Bishop Milner Catholic College



<p>Bonding, Structure and the properties of matter</p> <ul style="list-style-type: none">• Ionic, covalent and metallic bonding• Relating Bonding and Structure to properties• Metals as conductors• States of Matter/State symbols• Properties of ionic compounds• Properties of covalent molecules• Giant covalent structures (Diamond, graphite & Buckminsterfullerene)• Polymers and nanoparticles <p>Chemistry of the Atmosphere</p> <ul style="list-style-type: none">• Development of Atmosphere• How the Atmosphere changed• Greenhouse gases and global warming• Atmospheric pollutants and their effects	<p>Electrolysis</p> <ul style="list-style-type: none">• Process of electrolysis• Electrolysis of molten ionic compounds• Electrolysis for metal extraction• Electrolysis of Aluminium Ore• Electrolysis of aqueous solutions (CuSO_4 and NaOH) <p>Energy Changes and Rates of Change</p> <ul style="list-style-type: none">• Monitoring Chemical Reactions• Exothermic and Endothermic reactions• Collision Theory• Factors affecting rate of reaction• Reversible Reactions• Haber process• Production and use of NPK fertilizers	<p>Revision for Summer Examinations</p>
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