



Curriculum Plan year 9 chemistry triple curriculum
2016

Autumn Term	Spring Term	Summer Term
T1 (C1) Atomic Structure L1 Atoms, Elements and Compounds L2 History and Scientific models of the atom L3 Subatomic particles (size, mass and charges) and Isotopes L4 Electronic structure/Configuration L5 Writing balanced equations L6 Atomic structure and ion formation L7 Ion formation II L6 Separating Mixtures - Chromatography RP6- How paper chromatography can be used to separate substances, calculation of R _f L8 Separating Mixtures - Filtration and Crystallization L9 Separating Mixtures - Simple and Fractional Distillation L10 Atomic Structure review and EOT Test	T3 (C9) Chemistry of the Atmosphere L1 How has the atmosphere changed L2 The Earth's Early Atmosphere L3 How Oxygen in the Atmosphere increases RP3 -Investigation of electrolysis of aqueous solutions using inert electrodes L4 How Carbon dioxide in the Atmosphere decreased L5 Greenhouse Gases and Global Warming L6 Global climate change L7 Carbon footprint and its reduction L8 Atmospheric Pollutants L9 Effects of Atmospheric Pollutants L10 Atmosphere Review and End of Topic (EOT) Test	T5 (C7) Organic Chemistry L1 Crude Oil L2 Fractions and Uses L3 Fractional Distillation of Crude Oil L4 Properties of Fractions L5 Alkanes and Alkenes L6 Complete combustion L7 Incomplete combustion L8 Cracking L9 Cells and Batteries L10 Hydrogen Fuel Cells L11 Nanoparticles L12 Uses of Nanoparticles L13 Organic Chemistry review and EOT Test
HALF TERM		

Bishop Milner Catholic College



<p>T2 (C1) The Periodic Table L1 The Periodic Table L2 Development of the Periodic Table L3 Metals L4 Alkali Metals L5 Transition Metals <i>L5a Properties of Transition Metals - compare with Group L5b Properties of Transition Metals - variable charges, Coloured compounds and use as catalysts (with reference to Cr, Mn, Fe, Co, Ni and Cu)</i> L6 The Halogens L7 Halogen displacement L8 The Noble gases L9 Using the Noble gases L10 The Periodic Table Review and EOT Test</p>	<p>T4 (C10) Using resources L1 Properties of metals L2 Metal Extraction - Reduction L3 Metal Extraction - Electrolysis <i>L3a Oxidation and reduction in terms of electrons/Writing Half-equations</i> <i>L4 Alternative Methods of Metal Extraction</i> L5 Alloys L6 Corrosion and Prevention L7 Finite and Renewable resources - Metal Recycling L8 Life Cycle Assessments L9 Potable Water L10 Waste Water Treatments RP8- Analysis and purification of water samples from different sources (including pH, dissolved solids and distillation) L11 Using Resources Review and EOT Test</p>	<p style="text-align: center; font-size: 24pt; font-weight: bold;">CONTINUED</p>
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