



Curriculum Plan Year 9 Chemistry combined curriculum
2016

Autumn Term	Spring Term	Summer Term
<p>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 <i>RP6- How paper chromatography can be used to separate substances, calculation of R_f</i> L8 Separating Mixtures – Filtration and Crystallization L9 Separating Mixtures – Simple and Fractional Distillation L10 Atomic Structure review and EOT Test</p>	<p>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 <i>RP3 -Investigation of electrolysis of aqueous solutions using inert electrodes</i> 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</p>	<p>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 <i>L9 Higher - Addition Polymers</i> <i>L9a Higher - Condensation polymers</i> <i>L10 Higher - Amino Acids and DNA</i> L11 Organic Chemistry review and EOT Test</p>
HALF TERM		
<p>T2 (C1) The Periodic Table L1 The Periodic Table L2 Development of the Periodic Table L3 Metals L4 Alkali Metals L5 Transition Metals 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 Higher –Oxidation and reduction in terms of electrons/Writing Half-equations</i> <i>L4 Higher - Alternative Methods of Metal Extraction</i> L5 Alloys L6 Finite and Renewable resources - Metal Recycling L7 Life Cycle Assessments L8 Potable Water L9 Waste Water Treatments <i>RP8- Analysis and purification of water samples from different sources (including pH, dissolved solids and distillation)</i> L10 Using Resources Review and EOT Test</p>	<p>CONTINUED</p>

Bishop Milner Catholic College

