



Year 11 Chemistry Curriculum Summary


YEAR GROUP: 11 LETCH
SUBJECT: Chemistry

When?	Knowledge	Understanding	Assessment
Chemical analysis and Equilibrium	<p>Be able to:</p> <ul style="list-style-type: none"> describe and explain the differences between pure substances and impure mixtures carry out experiments involving chromatography and explain the results describe the tests for different gases. <p>Be able to:</p> <ul style="list-style-type: none"> define reversible reactions and dynamic equilibrium and what happens to the energy transferred in reversible reactions. Describe the effects of temperature, concentration, pressure and a catalyst on dynamic equilibrium. 	<p>Students will carry out a range of practical experiments during these topics.</p> <p>: Chemical analysis key vocabulary: Retention factor Chromatography Pure substance mixture</p> <p>Equilibrium key vocabulary: anhydrous closed system collision theory equilibrium hydrated Le Châtelier's Principle reversible reaction</p>	<p>: Chemical Analysis and Topic 6b: Equilibrium Test</p>
The Earth's Resources	<p>Be able to:</p> <ul style="list-style-type: none"> Describe the differences between renewable and non-renewable resources. Describe alternative methods of extracting metals from their ores. Describe different methods of treatment of water sources. Evaluate the life cycle assessment of different products. 	<p>Students will carry out a range of practical experiments during these topics.</p> <p>The Earth's Resources key vocabulary: Bioleaching blast furnace life cycle assessment (LCA) non-renewable thermal decomposition</p>	<p>The Earth's Resources Test</p>