

# Science - Chemistry

## Key Stage 3 - Year 9

Term One	Term Two	Term Three
<b>Chemical Analysis</b> <ul style="list-style-type: none"><li>• Atoms, symbols, formulae</li><li>• Pure substances and mixtures</li><li>• Distillation / Fractional distillation</li><li>• Filtration</li><li>• Chromatography</li><li>• Analysing Chromatograms, Rf values</li><li>• Testing for gases</li></ul>	<b>Atomic Structure</b> <ul style="list-style-type: none"><li>• History of the atom</li><li>• Structure of the atom</li><li>• Atoms and isotopes</li><li>• Electronic structure</li><li>• Balancing equations</li></ul>	<b>Rates</b> <ul style="list-style-type: none"><li>• Calculating mean rate</li><li>• Collision theory and surface area</li><li>• The effect of concentration or pressure</li><li>• The effect of temperature</li><li>• The effect of catalysts</li></ul>
		<b>Atmosphere</b> <ul style="list-style-type: none"><li>• History and evolution of our atmosphere</li><li>• Greenhouse effect</li><li>• Climate change</li></ul>