

Subject	Chemistry		
	Interpretation of National Curriculum into Year group Endpoints		
Year	Term 1	Term 2	Term 3
9	<p>Students will describe and explain the concepts of:</p> <p>C6 The rate and extent of chemical change</p> <ul style="list-style-type: none"> • factors that influence the rate of reaction: varying temperature or concentration, changing the surface area of a solid reactant or by adding a catalyst • factors affecting reversible reactions 	<p>Students will describe and explain the concepts of:</p> <p>C7 Organic chemistry</p> <ul style="list-style-type: none"> • carbon compounds, both as fuels and feedstock, and the competing demands for limited resources • fractional distillation of crude oil and cracking to make more useful materials <p>C8 Chemical analysis</p> <ul style="list-style-type: none"> • identification of common gases distinguishing between pure and impure substances • separation techniques for mixtures of substances: filtration, crystallisation, chromatography, simple and fractional distillation 	<p>Students will describe and explain the concepts of:</p> <p>C9 Chemistry of the atmosphere</p> <ul style="list-style-type: none"> • evidence for composition and evolution of the Earth's atmosphere since its formation • evidence, and uncertainties in evidence, for additional anthropogenic causes of climate change • potential effects of, and mitigation of, increased levels of carbon dioxide and methane on the Earth's climate • common atmospheric pollutants: sulphur dioxide, oxides of nitrogen, particulates and their sources <p>C10 Using resources</p> <ul style="list-style-type: none"> • the Earth's water resources and obtaining potable water. • life cycle assessment and recycling to assess environmental impacts associated with all the stages of a product's life • the viability of recycling of certain materials