

## CHEMISTRY

	AUTUMN TERM 1	AUTUMN TERM 2	SPRING TERM 1	SPRING TERM 2	SUMMER TERM 1	SUMMER TERM 2
	Topics	Topics	Topics	Topics	Topics	Topics
<b>Years 7&amp;8</b>	Key Stage 3 Science curriculum					
<b>YEAR 9</b>	Elements, Mixtures and Compounds (Topic 1 GCSE)	Evolution of the Earth's Atmosphere (Topic 9 GCSE)	Atomic Structure Topic 1 GCSE	The Periodic table Topic 1 GCSE	Groups within the periodic table Topic 1 GCSE	Groups within the periodic table Topic 1 GCSE
<b>YEAR 10 Combined Science</b>	Bonding, Structure and the properties of matter. (Topic 2 GCSE)	Quantitative Chemistry - moles of solids (Topic 3 GCSE)	Chemical Changes - metal reactivity	Chemical Changes acid chemistry (Topic 4 GCSE)	Chemical Changes - electrolysis (Topic 4 GCSE)	Energy Changes exothermic and endothermic reactions (Topic 5 GCSE)
<b>YEAR 10 Separate Science</b>	Bonding, Structure and the properties of matter. (Topic 2 GCSE)	Quantitative Chemistry - moles of solids (Topic 3 GCSE)	Quantitative Chemistry- moles of gases and solutions (Topic 3 GCSE)	Chemical Changes - metal reactivity and acid chemistry (Topic 4 GCSE)	Chemical Changes - electrolysis (Topic 4 GCSE)	Energy Changes exothermic and endothermic reactions (Topic 5 GCSE)
<b>YEAR 11</b>	Energy Changes cells and batteries (Topic 5 GCSE)	Rate and extent of chemical change - rates of reactions (Topic 6 GCSE)	Organic Chemistry (Topic 7 GCSE)	Chemical analysis (Topic 8 GCSE)	Using resources (Topic 10)	
<b>YEAR 12</b>	Atomic structure, Redox Quantitative Chemistry	Bonding and structure Quantitative Chemistry Periodicity, Kinetics	Introduction to organic chemistry, Alkanes, Energetics	Halogenoalkanes, Alkenes, Equilibria,	Alcohols, Analysis, Group 2 and Group 7	Group 7, independent research and practical skills work.
<b>YEAR 13</b>	Optical isomerism, aldehydes and ketones, Acids and bases,	carbonyl chemistry, aromatic chemistry, thermodynamics, Kp and rate equations	amines, amino acids, polymers, rate equations, periodicity, redox equilibria	DNA and enzymes, chromatography, NMR, Redox equilibria, Transition metals	NMR and aqua ions	