

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
Years 7&8	Key Stage 3 Science curriculum					
YEAR 9	Elements, Mixtures and Compounds (Topic 1 GCSE) and the Evolution of the Earth's Atmosphere (Topic 9 GCSE) - New 2021	Making water safe to drink and useful materials (Topic 10 GCSE) - New 2021	Using resources - Sustainability (Topic 10 GCSE) - New 2021	Atomic Structure Topic 1 GCSE - New 2021	The Periodic table Topic 1 GCSE - New 2021	Groups within the periodic table Topic 1 GCSE - New 2021
YEAR 10	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)
YEAR 11	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)	
YEAR 12	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.
YEAR 13	Optical isomerism, aldehydes and ketones, thermodynamics, K _p	carbonyl chemistry, aromatic chemistry, acid-base chemistry 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	