CHEMISTRY CURRICULUM: KS5

Intent:

In Science we aim to deliver a *knowledge rich*, *ambitious*, and *inclusive* curriculum that ensures all pupils master key concepts in the three Sciences. This *empowers* them to examine *relevant* global issues such as pollution, food sustainability, climate change *etc*. We ensure pupils develop a *coherent* understanding of scientific enquiry and gain the skills needed to draw valid conclusion via practical work. We aim to foster pupil's natural curiosity and develop them into critical thinkers where they can apply their knowledge to the modern world (e.g., understanding electricity bills, choosing a car wisely, the importance of screening).

Qualification(s)	A level Chemistry
Exam Board	AQA
Link to Specification	https://filestore.aqa.org.uk/resources/chemistry/specifications/AQA-7404-7405-SP-2015.PDF

Procedural knowledge is developed throughout the curriculum whilst pupil's carry out the required practicals. These practicals are assessed within the external exams so is vital pupils attend these lessons.



	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	Atomic structure	Amount of	Energetics	Kinetics	Equilibrium	Kinetics 2
	Bonding	Substance	Haloalkanes	Alkenes	Alcohols	Organic Analysis
	Redox	Group 2				
	Periodicity	Group 7				
		Introduction to				
		Organic Chemistry				
		Alkanes				
Year 13	Thermodynamics	Equilibrium, Ep	Transition metals	Reactions of inorganic	Electrode	External Exams
	Nomenclature	Acid, bases, and	Amino acids,	compounds in	potentials and	
	and isomerism	buffer	proteins, and DNA	aqueous solutions	electrochemical	
	Compounds	Aromatic		Organic Synthesis and	cells	
	containing the	Chemistry		analysis		
	carbonyl	Amines		Structure determination		
	Group	Polymerisation		Chromatography		
				Periodicity 2		

Further Support:

Pupils are advised to use the following textbook to support their learning (ISBN: 9780198351825):

https://www.amazon.co.uk/AQA-Chemistry-Level-Student-Book/dp/0198351828

Physics and maths tutor. Revision notes, key points, worksheets, and questions by topic from past papers.

www.physicsandmathstutor.com



Pupils are issued with a revision workbook at the beginning of the second year. They are able to work through and keep these to support their revision.

Who to contact regarding KS5 Chemistry:

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