Curriculum Overview

Subject: Chemistry

Year Group: Year 12



Students taking the A-Level Chemistry course, will build on the prior GCSE knowledge and further explore the theories, principles, and intricacies in greater depth. Chemistry is known as the 'central science' because it connects with all other natural sciences, such as biology, physics, and mathematics. Students will develop analytical skills and applied numerical abilities through A-Level study of the subject.

The course specification is thoughtfully structured into distinct topics, encompassing the key concepts essential to the discipline. Emphasis is placed on modelling and exam skills, with practical work integrated as a vital component of our approach. The required practical activities empower students to embed their skills and knowledge, ensuring they meet the stipulations of the Common Practical Assessment Criteria (CPAC).

Chemistry careers can be fascinating and rewarding. A Level chemistry prepares you to progress onto further or higher education, to follow courses chemistry., It is a compulsory choice for anyone wishing to pursue medicine, dentistry and veterinary science, as well as chemistry-based degrees, such as pharmacy, pharmacology, and biochemistry.

TERM 1	TERM 2	TERM 3
KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS
Atomic Structure	Alkanes	Alcohol
Amount of substances	Halogenoalkanes	Organic analysis
Bonding	Alkenes	• Group 2
• Periodicity	• Energetics	• Group 7
Introduction to organic chemistry	Kinetics	Equilibria

Skills: • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.	Oxidation, reduction and redox reactions Skills: A Old Demonstrate Impervious and	Skills: • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures.		
 AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. 	 AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. 	 AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures. 		
KEY ASSESSMENTS	KEY ASSESSMENTS	KEY ASSESSMENTS		
Half term 1: Topic test: Atomic structure and Amount of substances	Half term 1: Topic test: Introduction to organic chemistry, Alkanes and Energetics	Half term 1: Topic test: Alcohol, Group 2 and Group 7		
Half term 2: Topic test: Bonding, Periodicity	Half term 2: End of year 12 PPE's Term 1 and term 2 topics	Half term 2: End of year PPE paper 1		
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Extended reading suggestions and external resources:

UpLearn https://uplearn.co.uk/

Save My Exams https://www.savemyexams.com/as/chemistry/aga/16/

Quizlet https://quizlet.com/

We actively encourage students to read, research and revise over learnt and sent content during their undirected study time, which is supported through our sixth form team.



Curriculum Overview

Subject: Chemistry

Year Group: Year 13

TERM 1	TERM 2	TERM 3
KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS	KNOWLEDGE/SKILLS
Isomerism and Carbonyl compounds	• Polymers	Personalised Revision from Easter PPE
Thermodynamics	Period 3 and Transition metals	
Aromatic compounds and amines	Amino acids, proteins and DNA	
Rate of Equations	Further synthesis and analysis	
Electrode potential and cells		
Personalised Revision from Year 12 PPE	Personalised Revision from December PPE	
Skills: - • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.	Skills: • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.	Skills: • AO1: Demonstrate knowledge and understanding of: scientific ideas; scientific techniques and procedures. • AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures. • AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

KEY ASSESSMENTS	KEY ASSESSMENTS	KEY ASSESSMENTS
Half term 1: Topic test: Isomerism and Carbonyl compounds and Thermodynamics	Half term 1: Topic test: Polymers, Period 3 and Transition metals and Amino acids, proteins and DNA	A level Exam
Half term 2: December PPE paper 1	Half term 2: Easter PPE paper 2	

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