

Course title: Chemistry A Level

Entry Requirements:

To be considered for this course as part of a full A Level programme you will need an average GCSE grade of 6, including a minimum grade of 6 in English, Maths and Chemistry. It is essential that you have studied Separate Sciences at GCSE.

Exam Board:

AQA

Details of Examinations AS EXAM FORMAT

	PAPER 1	PAPER 2
What is Assessed?	Topics – 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.1.6, 3.1.7, 3.2.1, 3.2.2, 3.2.3 Relevant practical skills	Topics – 3.1.2, 3.1.3, 3.1.4, 3.1.5, 3.1.6, 3.3.1, 3.3.6 Relevant practical skills
How is it Assessed?	Written exam 90 minutes 80 marks 50% of AS grade	Written exam 90 minutes 80 marks 50% of AS grade
Types of Questions	65 marks of short and long answer question 15 marks multiple choice questions	65 marks of short and long answer question 15 marks multiple choice questions

A LEVEL EXAM FORMAT

	PAPER 1	PAPER 2	PAPER 3
What is assessed?	Physical Chemistry Topics 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.1.6, 3.1.7, 3.1.8, 3.1.10, 3.1.11 & 3.1.12 Inorganic chemistry Topics 3.2.1, 3.2.2, 3.2.3, 3.2.4, 3.2.5 & 3.2.6 Relevant practical skills	Physical Chemistry Topics 3.1.2, 3.1.3, 3.1.4, 3.1.5, 3.1.6 & 3.1.9 Organic Chemistry Topics 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6, 3.3.7, 3.3.8, 3.3.9, 3.3.10, 3.3.11, 3.3.12, 3.3.13, 3.3.14, 3.3.15 & 3.3.16 Relevant practical skills	Any content from the entire course curriculum Any practical skills from the course curriculum
How is it Assessed?	Written exam 2 hours 105 marks 35% of A-level	Written exam 2 hours 105 marks 35% of A-level	written exam 2 hours 90 marks 30% of A-level
Types of Questions	105 marks of short and long answer questions	105 marks of short and long answer questions	40 marks of questions on practical techniques and data analysis 20 marks of questions testing across the specification 30 marks of multiple choice questions

Topics Covered:

YEAR 12

PHYSICAL CHEMISTRY			INORGANIC CHEMISTRY			ORGANIC CHEMISTRY		
TOPIC	EXAM COMPONENT	TEACHER	TOPIC	EXAM COMPONENT	TEACHER	TOPIC	EXAM COMPONENT	TEACHER
3.1.1 Atomic Structure	P1	MO	3.2.1 Periodicity	P1	MO	3.3.1 Introduction to Organic Chemistry	P2	SK
3.1.2 Amount of Substance	P1 P2	SK	3.2.2 Group 2	P1	MO	3.3.2 Alkanes	P2	SK
3.1.3 Bonding	P1 P2	SK	3.2.3 Group 7	P1	MO	3.3.3 Halogenalkanes	P2	MO
3.1.4 Energetics	P1 P2	SK				3.3.4 Alkenes	P2	MO
3.1.5 Kinetics	P2	SK				3.3.5 Alcohols	P2	MO
3.1.6 Chemical Equilibria	P1 P2	SK				3.3.6 Organic Analysis	P2	SK
3.1.7 Redox Equations	P1	MO						

YEAR 13

In addition to all work covered in Y12 students will study the following topics:

PHYSICAL CHEMISTRY			INORGANIC CHEMISTRY			ORGANIC CHEMISTRY		
TOPIC	EXAM COMPONENT	TEACHER	TOPIC	EXAM COMPONENT	TEACHER	TOPIC	EXAM COMPONENT	TEACHER
3.1.8 Thermodynamics	P1	SK	3.2.4 Properties of Period 3 Elements & their Oxides	P1	SK	3.3.7 Optical isomerism	P2	SK
3.1.9 Rate Equations	P1 P2	SK	3.2.5 Transition Metals	P1	SK	3.3.8 Aldehydes and ketones	P2	SK
3.1.10 Equilibrium & Equilibrium constant K_p for homogeneous systems	P1	SK	3.2.6 Reactions of Ions in Aqueous Solutions	P1	SK	3.3.9 Carboxylic acids and derivatives	P2	SK
3.1.11 electrode potentials & Electrochemical cells	P1	SK				3.3.10 Aromatic chemistry	P2	SK
3.1.12 Acid & Bases	P1	SK				3.3.11 Amines	P2	SK
						3.3.12 Polymers	P2	SK
						3.3.13 Amino acids, proteins and DNA	P2	SK

						3.3.14 Organic synthesis	P2	SK
						3.3.15 Nuclear magnetic resonance spectroscopy	P2	SK
						3.3.16 Chromatography	P2	SK

Post-18 Progression and Pathways to universities:

There are a range of pathways which A Level Chemistry can offer at university, including:

- Chemistry
- Medicine
- Pharmacology
- Dentistry
- Biology
- Biotechnology
- Forensic Science
- Genetic Studies

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