

Course Content

The A-Level Chemistry course is a 2 year course worth a maximum 56 UCAS points. The course contains 3 topics each of which contain practical skills assessments that must be passed to gain the qualification.

AS

Physical Chemistry

In this section of the qualification you will look at Atomic Structure, Amounts of Substances, Bonding, Energetics, Kinetics, Chemical Equilibria, Le Chatelier's Principal and Redox Reactions.

Inorganic Chemistry

This unit will focus on the Periodic Table's structure and organisation.

Organic Chemistry

In organic chemistry you will be looking at the nature of carbon compounds and explain the different types of formulae that can be used to represent a compound. The key topics will be Alkanes, Halogenalkanes, Alkenes and Alcohols, together with organic analysis.

A-level

All AS Chemistry content plus:

Physical Chemistry

In this section of the qualification you will look at Thermodynamics, Rate Equations, Equilibrium Constant, Electrode Potentials and Electrochemical Cells and finally Acids and Bases.

Inorganic Chemistry

Building on the AS work you will also look at the Period 3 Elements and their Oxides, The Transition Metals and Reactions of Ions.

Organic Chemistry

This unit will cover topics such as Optical Isomerism, Aldehydes and Ketones, Carboxylic Acids, Aromatic Chemistry, Amines, Polymers,

Skills and Qualifications Required: The skills you will need to develop and extend will include practical lab skills, report writing and research techniques. There will be an expectation that after each practical you will write up the investigation in full during your private study time as well as analysing and presenting data and being able to draw conclusions based on your evidence.

Due to the technical nature of this subject entry requirements are grades 66 in your GCSE Sciences, one of which must be Chemistry if you took the triple award and a grade 6 for GCSE Mathematics.

Assessment : The course will be assessed at the end of the year with three 2 hour exam papers. Papers 1 and 2 are made up of 105 marks of short and long answer questions. Paper 1 will test your knowledge of physical and inorganic chemistry and Paper 2 will test you on Physical and Organic Chemistry. The Paper 3 is a 90 mark paper where 40 marks come from your knowledge of practical techniques, 20 from any of the topics you have covered and a final 30 marks of multiple choice. In addition around 20% of the questions across all papers will test your skills.

A Pathway To...

A qualification in chemistry can lead to a variety jobs, for example, pharmacologist, chemical engineer, medical doctor, biochemist, healthcare scientist and analytical chemist.



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Mrs Alaka Email AlakaA@Thomasbecket.org.uk