

CHEMISTRY - A LEVEL

Course Content

- **Physical Chemistry**
- **Inorganic Chemistry**
- **Organic Chemistry**

The two-year A Level Chemistry qualification is examined by three examination papers in June 2019. Practical skills are examined within the three written examination papers.

A separate endorsement of practical skills will be taken alongside the A Level. This will be assessed by teachers and will be based on direct observation of students' competency in a range of skills that are not assessable in written exams.

There are twelve required practicals that must be undertaken during the two-year A Level Chemistry course.

Topics studied in Year 12 are:

Physical chemistry – atomic structure, amount of substance (calculations), bonding, energetics, kinetics, chemical equilibria, oxidation reduction and redox reactions.

Inorganic chemistry – periodicity, group 2, group 7.

Organic chemistry – naming compounds, reactions, isomers, alkanes, haloalkanes, alkenes, alcohols, analysis.

Teaching and Learning

During this course students will develop concepts learnt at GCSE.

The course involves the development of higher level practical skills as well as relying on good mathematical skills. The content as well as relevant practical skills are examined in all papers.

Over the two year course there are twelve required practical's that students must complete. The course also incorporates How Science Works and its relevance beyond the laboratory.

How Science Works builds on knowledge of the concepts introduced at GCSE and gives students an insight into how Scientists investigate scientific phenomena in their attempts to explain the world around us.

Students will be expected to attend the Revision Conferences, presentation events, visit laboratories and exhibitions to develop good research skills.

Assessment

A Level Chemistry – Two Year Qualification

Examined in the June of 2021 by three papers, all 2 hours in length. Practical skills and knowledge are examined in the written papers.

The course requires a desire to learn and apply new concepts.

A willingness to read around a topic and research into the application of new techniques, is essential if success is to be achieved.

Assessment work will focus on the application of Planning, Implementing, Analysing and Evaluation in the context of practical investigations.

Progression

This qualification leads to many university courses both within the chemistry discipline and many other areas, e.g.; Engineering, Medicine, Dentistry, Forensic Science, Pharmacy, Environmental Science and Veterinary Science and many more.

It is also a worthwhile course for students who intend to pursue a career in Management and Communications as it develops scientific reasoning skills.

Entry Requirements

Grade 7-7 in Trilogy or Grade 7 in GCSE Chemistry, GCSE Maths Grade 6 or above, GCSE English Language Grade 6 or above.

Examination Board

AQA

Further Details

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