Year 13 A level Chemistry

We enter students for the OCR A-Level Chemistry A and use the exam specification to structure your studies.

In Year 13, you will study the final two modules of the A-Level, taught by two teachers. Facts and concepts from modules 1-4 are built on here.

Module 5 Physical chemistry and transition elements
In this module you take the ideas about enthalpy, rates and equilibria further, applying more quantitative methods to their analysis. You also add transition metal chemistry to your knowledge about the periodic table.

Module 6 – Organic chemistry and analysis
This module of further organic chemistry begins by looking at the chemistry of aromatic compounds. You then deepen your understanding of carbonyl compounds and are introduced to organic functional groups containing nitrogen. Finally, you learn how to interpret NMR spectra and add this to your arsenal of spectroscopic methods for analysing organic compounds.

As was the case in year 12, required practical activities allow you to apply the theory and learn essential practical skills such as synthesising organic solids, investigating rates of reaction and carrying out redox titrations.

Assessment

At the end of each topic you will complete an end of topic test.

In the year 13 mock exams (December) you will sit two papers, each 2 hours long. The first assesses your knowledge of physical and inorganic chemistry (modules 3 and 5) while the second is about organic chemistry (modules 4 and 6). Practical techniques (module 1) and foundational ideas (module 2) are assessed in both papers.

Our expectations of you

- ✓ bring all equipment to all lessons
- ✓ complete homework on time and to the best of your ability
- ✓ take responsibility for revising scientific language and concepts on a regular basis
- ✓ attend weekly clinic sessions for extra support when necessary
- ✓ keep track of areas that you need to work on
- ✓ complete further reading and revision independently

Further reading

For more information, you can look at the OCR website, where you can download the specification and sample assessment materials:

www.ocr.org.uk/qualifications/as-and-a-level/chemistry-a-h032-h432-from-2015/

Some other useful websites include the following:
www.chemguide.co.uk
www.periodicvideos.com
www.rsc.org