

## Year 12 A level Chemistry

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

In Year 12, you will study the first four modules of the A-Level, taught by two teachers:

### **Module 1 – Development of practical skills in chemistry**

Alongside the chemical concepts taught and assessed in A-Level you also develop your practical skills through a series of required practicals. This leads to a Practical Endorsement. Year 12 practical skills include carrying out titrations and making organic liquids.

### **Module 2 – Foundations in chemistry**

You start your A-Level studies by learning about foundational ideas that will underpin the rest of the course, such as moles, electrons, bonding, structure, redox reactions and electronegativity.

### **Module 3 – Periodic table and energy**

You will learn about periodicity (trends and patterns in the periodic table), enthalpy (energy changes in reactions), rates of reaction and equilibria

### **Module 4 – Core organic chemistry**

You will begin with the basics of naming and recognising molecules and families of molecules, before moving on to studying the chemistry of specific organic functional groups (alkanes, alkenes, alcohols and haloalkanes). You are also introduced to the use of spectroscopic techniques to analyse organic molecules.

### **Assessment**

At the end of each topic you will complete an end of topic test, based on previous examination questions. You will also complete one synoptic test per term, where you will be assessed on all material covered so far.

In the end of year 12 mock exams you will sit two papers at AS standard. Each paper contains material from modules 1-4. Each paper is 90 minutes long.

### **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/](http://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](http://www.chemguide.co.uk)

[www.periodicvideos.com](http://www.periodicvideos.com)

[www.rsc.org](http://www.rsc.org)