

AS-LEVEL CHEMISTRY

Many learners study chemistry because they wish to study the subject at university while others do so in order to study subjects such as medicine, veterinary science, dentistry, biochemistry and pharmacy, for which A-level chemistry is essential. However Chemistry is an important subject, not just for science, but for many other types of career. Even if you have no idea what you would like to do but you are interested in chemistry you will make a good choice with A-level chemistry.

Course content and assessment

Unit 1: Atoms, Bonds and Groups

This unit provides the basic underpinning chemistry concepts:

- Atoms and Reactions - Atoms, moles and equations, acids and redox
- Electrons, Bonding and Structure - Electron structure, Bonding and structure
- The Periodic Table – An introduction to the periodic table looking in more detail at the chemistry of group 2 and 7 elements.

Unit 2: Chains, energy and resources

This unit is about organic chemistry and energy

- The basic concepts and the hydrocarbons alkanes and alkenes
- Alcohols, Halogenoalkanes and modern analytical techniques
- Enthalpy changes, rates and equilibrium
- Chemistry of the air and green chemistry

Unit 3: Practical work

This AS unit is teacher assessed and externally moderated by OCR. You are assessed on one task from each of the following categories: qualitative, quantitative and evaluative tasks so you will carry out three tasks in total. The qualitative and quantitative tasks will test skills of observation and measurement and all the tasks carried out under controlled conditions. Each task will be internally assessed using a mark scheme provided by OCR.

Teaching and Learning

You will be taught in a variety of ways; including class discussion, small group work, presentation, working on the laptops doing quizzes. Practical work will feature strongly, both as reinforcement of the theory and as preparation for the practical exam. One of the most enjoyable aspects of the course is the amount of practical work that you will do. By the end of the year learners are confident and skilful.

Exam Board: OCR Syllabus: Specification A H034