

# OCR AS/A2 Advanced Level Chemistry B (Salter's)



## Entry Requirements

Students should have achieved a minimum of 5 GCSEs at grades A\* - C. (Please note that subjects can only be counted once); national data shows that this course is not suitable for students with an average GCSE points score of less than 47.1. In the past, successful students of this course have achieved a minimum of a GCSE grade B in Science and a GCSE grade C in Mathematics. Students will be expected to purchase a lab coat for themselves either through the school or independently.

## Course description

The AS GCE is both a 'stand-alone' qualification and also the first half of the corresponding Advanced GCE. The course is made up of six mandatory units in total, three at AS level;

**Chemistry for Life:** Elements of Life and Developing Fuels

**Chemistry of Natural Resources:** Elements from the Sea, The Atmosphere and The Polymer Revolution

**Chemistry in Practice:** Competence, Measurement, Analysis and Evaluation, Observation and Interpretation;

and three at A2 level.

**Chemistry of Materials:** What's in a medicine?; The Materials Revolution; The Thread of Life and The Steel Story

**Chemistry by Design:** Agriculture and Industry; Colour by Design; The Oceans and Medicines by Design

**Chemistry Individual Investigation:** A single individual investigation taken from any aspect of Chemistry.

## Learning Style

The course book contains the 'Chemical Storyline', which guides you through each unit. Each unit will also demand that you explore the 'Chemical Ideas' and 'Activities' at appropriate points. Each unit is broken into sections which contain assignments and these will help you to develop your understanding as will the practical work which is an important element of the course.

## Assessment

Two of the AS and two of the A2 units are externally assessed through written exams.

The third AS unit and the third A2 unit are internally assessed and will include the assessment of practical skills through appropriate coursework.

## Career Opportunities and Pathways

Not all chemists wear white coats! With a qualification in Chemistry you could go on to Further or Higher Education, studying Chemistry or one of the other sciences or related subjects, such as Medicine, Pharmacy, Veterinary Science, Marine Science, Sports Science or Chemical Engineering. You may go on to work in science-based industry, the medical field or agriculture. The problem solving and analytical approach in Chemistry can also lead to many career opportunities outside the sciences such as Law, Management, or Accountancy.

Other subjects that would go well with Chemistry at AS or GCE Advanced level are Biology, Mathematics and Physics. However, other combinations of subjects including Geology and Geography are also suitable. You may be concentrating on arts, humanities or modern language subjects and wish to take Chemistry to AS level to broaden your studies by continuing to take a science subject.

## Subject Staff contacts for further information:

Mr I Henderson	Kingsmead
Mr Pollock	Kingsmead
Mrs Fraser-Ryan	Norton Canes
Mrs Hyde	Blake