

Chemistry AS/A2

EXAMINATION BOARD:

OCR Syllabus Chemistry (Salters),
Modular, Advanced Subsidiary GCE (3887) and advanced GCE (7887)

ENTRANCE REQUIREMENTS:

GCSE Science (Double Award) Modular, Grade BB and GCSE Mathematics Grade C.

THE COURSE

The use and applications of chemistry are explored throughout the course including:

- Medical Chemistry – Drug Manufacture
- Material Science – Polymer Manufacture & Design
- Colour Chemistry – Pigments and Dyes
- Environmental Chemistry – Chemistry of the Atmosphere and the Oceans
- Geochemistry – Extraction of Elements from Raw Materials
- Biochemistry – Protein Structure & DNA
- Physical Chemistry – Uses and Properties of Transition Metals

THE DIFFERENCE BETWEEN GCSE AND A-LEVEL

A-level demands that students work more conscientiously and more independently than at GCSE level. They take responsibility for maintaining high standards of coursework notes and assignments and the need to seek help and explanation where necessary. Note taking is important and they must organise their practical activities safely and sensibly and be prepared to take an active part in class discussion. Extra reading and research to extend basic knowledge covered in lessons is essential.

Unit 1 – 3

AS Units 1 - 3

Unit 1	Chemistry for Life	Examination 1 hr 15 min	15%
Unit 2	Chemistry Industrial Resources	Examination 1 hr 30 min	20%
Unit 3	Skills for Chemistry	Open Book Paper	7½%
		Experimental Skills	7½%

A2 Units 4 - 6

Unit 4	Chemistry of Materials	Examination 1 hr 30 min	15%
Unit 5	Chemistry by Design	Examination 2 hrs	20%
Unit 6	Individual Investigation	Coursework	15%

SUPPORTING SUBJECTS

Other subjects, which go well with Chemistry at AS or A level, are Biology, Mathematics and Physics. However, other combinations of subjects include Geography, ICT and Physical Education. Chemistry AS could be a useful subject to broaden the studies of students concentrating on arts, humanities or modern languages.

POST A-LEVEL (INCLUDING CAREER OPPORTUNITIES)

There is a high demand for those who have chemistry qualifications at A-level, degree or related degree level. Chemistry A-level is a requirement for medicine and a wide range of university science and technology courses. Employers view successful chemistry students as versatile and capable both in related areas, and in non Science based Careers.