



# Course Choice Information – Chemistry

## Advanced Higher

### Course Information & Content

The Advanced Higher Chemistry course is comprised of the following areas:

- Inorganic Chemistry
  - The topics covered are: ♦ electromagnetic radiation and atomic spectra ♦ atomic orbitals, electronic configurations and the periodic table ♦ transition metals
- Physical Chemistry
  - The topics covered are: ♦ chemical equilibrium ♦ reaction feasibility ♦ kinetics
- Organic Chemistry and Instrumental Analysis
  - The topics covered are: ♦ molecular orbitals ♦ synthesis ♦ stereo chemistry ♦ experimental determination of structure ♦ pharmaceutical chemistry
- Researching Chemistry
  - The topics covered are: ♦ common chemical apparatus ♦ skills involved in experimental work ♦ stoichiometric calculations ♦ gravimetric analysis ♦ volumetric analysis ♦ practical skills and technique

### Assessment

SQA assessment:

A final exam of a question paper worth 110 marks. This takes 3 hours.

An advanced higher project which is worth 25 marks. This requires around 20 hours of work and is sent away to be marked externally by the SQA.

In class assessment:

Pupils will be assessed on each unit with end of unit written assessments which will measure their progress throughout the course.

### Homework

Pupils will be provided with a variety of weekly homework exercises. These will include past paper questions, revision tasks etc.

### Progression

Higher Education.

### Career Options

Agrochemical industry | Analytical Chemistry | Biochemistry & Biotechnology | Ceramics Industry | Chemical Engineering | Dentistry | Environmental Chemistry & Law | Food Production & Chemistry | Forensic Science | Law | Materials Science | Medicine | Oil and Natural Gas Industry | Pharmaceuticals | Plastics & Polymer Industry | Veterinary

[Further Information - SQA](#)

