



# Chemistry

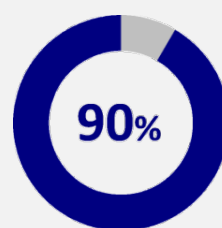
## Overview

You already know a lot about chemistry - our lives depend on it! Chemistry is the study of substances: what they're made of, how we can combine them and what role they have in living things. Chemists study all aspects of materials: the materials in our bodies, in our food and in the environment. They are the scientists who develop new substances for industry and medicine. Without Chemistry we would be in the Stone Age!

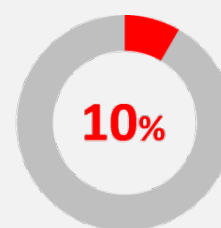
These are some of the exciting things, which chemists do:

- Discovering new life saving drugs.
- Inventing new paints and dyes.
- Studying the atmosphere and how pollution affects it.
- Helping to solve crime in police forensic laboratories.
- Making sure that drinking water is safe and clean.

## Assessment



Examination



Controlled Assessment

## Examining Board

*WJEC*

## Requirements

*You will be required to get a B grade in either Double Award Science or Triple Science (Higher) to study A level Chemistry. The course contains a high mathematical skill and so it would be recommended that you have a B grade or above in Mathematics also.*

## Departmental Staff

Miss Sharon Magill (Curriculum Manager)  
Miss Victoria Scourfield

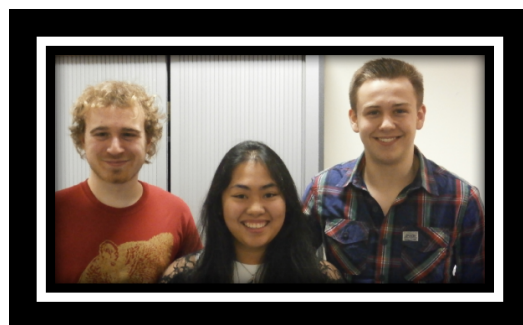
## “What our students say...”

*“Chemistry changed my life! You need to make sure you’re good at GCSE level before taking the A level.”*

*“I enjoyed learning to make iodoform compounds and linking this to making chloroform.”*

*“Don’t moan, make a ketone!”*

”



### Course Outline

The course is split into two years:

The first year is the **AS year**. During this year you will develop your knowledge of chemistry from the GCSE to the A level. You will learn more about the structure of the atom and rates of reactions, for example. You will also look at new topics such as halogenoalkanes, alcohols and carboxylic acids. You also develop your range of practical skills and have a minimum of fifteen practicals to undertake to prepare you for the following year.

The second year is the **A2 year**. During this year you will apply your knowledge of chemistry to the more in-depth topics such as redox chemistry, entropy and feasibility of reactions, aromaticity and amines, for example. Again you undertake fifteen practicals over the year to prepare you for the practical assessment and written examination.

### Career and Progression Opportunities

A Level Chemistry open doors to hundreds of courses and careers, some you probably haven’t heard of. It’s sometimes called the “central science” because it has links to all the other branches of science. For many courses and careers, A level Chemistry is a vital qualification:

Biochemistry, Pharmacy, Dentistry, Medicine, Veterinary science, Food science, Agriculture, Biology, Pathology, Geology, Ecology, Environmental science, Genetics, Chemical or Biomedical engineering.

#### Contact

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