



# 6<sup>th</sup> Form Courses

## CHEMISTRY



- How old are the atoms in your body?
- What substance currently retails at \$167 million per gram and how do you make it?
- How many molecules are there in a rubber car tyre?

By studying Chemistry, you will be able to answer all these questions and more!

*“Consider Chemistry...among the most useful of sciences and big with future discoveries for the utility and safety of the human race”*

**Thomas Jefferson**

## A level Chemistry (AQA)

### What is the course like?

Chemistry explains a lot of burning (see the link?) questions that you will have had from GCSE's. We explain the why!

We look at the atom and chemical reactions in more depth, we enquire, investigate and explain lots of reactions you may have taken for granted. Chemists also develop skills in numeracy, data handling, computing and I.T., in evaluating written material and in presenting both written and verbal reports of their work. These are very important skills for any future career.

### Course content

Atomic Structure  
Chemical Calculations  
Chemical Bonding  
Organic Chemistry  
Energetics  
Equilibrium  
Reactions and Elements  
Halo Alkanes  
Alcohols  
Practical experience

### Entry requirement

Chemistry GCSE (Triple or Trilogy) – Level 6 or Above  
Mathematics GCSE and English GCSE – Both Level 6 or Above

### Duration

2 years.

### How will I be assessed?

Three 2hr papers at the end of the second year alongside a Practical Skills Assessment

### Where does it lead?

Upon completion of your A Level, you will be equipped for Higher Education at University. , with students typically taking chemistry, medicine or pharmacology. So many careers appreciate the analytical skills of a chemist. A small number of science related careers include: all areas of industry, from the oil, chemical and pharmaceutical companies to a host of smaller enterprises producing new and specialist products, forensic science, medicine, dentistry, public health and environmental protection.

### Is this course suitable for me?

Yes, if you prefer a more academic approach to learning. Assessment is based on understanding, knowledge and application.

A-level Chemistry attempts to answer the big question 'what is the world made of' and it's the search for this answer that makes this subject so fascinating. From investigating how one substance can be changed drastically into another, to researching a new wonder drug to save millions of lives, the opportunities that chemistry provides are endless.

We get to explain why some compounds are coloured and others are not, use our forensic skills to work out what different substances are made of, make electrochemical cells (how most batteries work!). You will plan, synthesis and analysis Aspirin.

### Additional information

- Links with Wellington College
- Practical experiments throughout the course
- Become a STEM ambassador
- Educational trips to universities
- Modern, well equipped lab space

## How to Apply

- Complete and return an application form. Application forms are available from the Wellington Academy website: [www.thewellingtonacademy.org.uk](http://www.thewellingtonacademy.org.uk).
- Your completed application should be returned to Dave Bissington, Head of 6<sup>th</sup> Form, this can be done either via your tutor (if internal) or delivered to the school reception.
- Alternatively please complete an online form, found under 2021 – Applications on the 6<sup>th</sup> Form tab.
- You will have an individual course consultation, during which provisional courses will be agreed.
- The offer of the course will be conditional upon you meeting the required entry grades, any subject specific criteria and having a suitable reference from your previous school.
- Your final interview will be held immediately after you have received your GCSE results. This is when your actual offer is negotiated and confirmed.

**[www.wellingtonacademy.org.uk](http://www.wellingtonacademy.org.uk)**

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