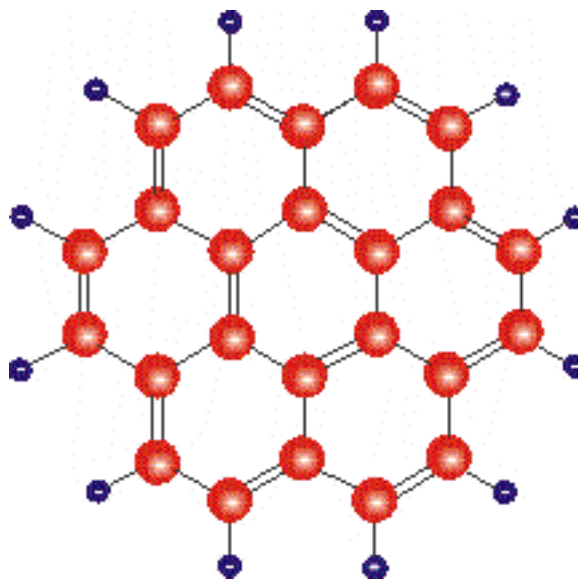


# What then ?

AS or A2 level qualifications in Chemistry are highly regarded, and will offer access to a wide variety of careers. It is an essential subject for Medicine, Veterinary medicine and Dentistry and is desirable for most scientific and technological careers. It is of course, essential for entry into any of the branches of Chemistry, e.g. Biochemistry, Pharmacy, Materials Science, Molecular Science etc., and when combined with Mathematics and / or other science subjects, offers an enormous variety of career options. Chemistry is an excellent academic qualification and readily complements many subject combinations allowing for entry into a wide variety of non-scientific careers.



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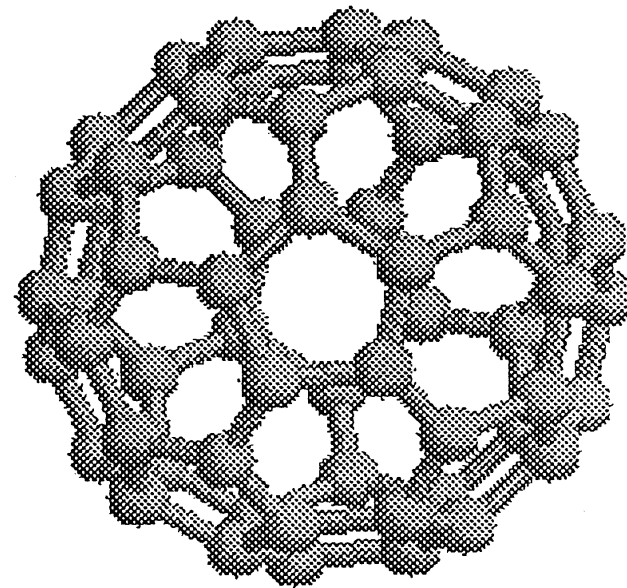
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COLLEGE 

# Chemistry

Information



*the key to our future*

Chemistry is the key to life but is also at the heart of technological change and progress.

Everyday materials such as plastics, paints and dyes are the result of chemical research.

Artificial fibres, new drugs and even the microchips which run computers could not have been developed without the skill and knowledge of chemists.

So whilst we are all consumers of chemistry, for chemists themselves there is the added dimension of challenge and new discovery - the opportunity to directly influence quality of life, industrial capabilities and the nature of the world around us. Chemistry will always be a vital and vibrant science.

## What are the entrance requirements for the course ?

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GCSE at grade B or above in Chemistry or Double Award Science. We would like to see GCSE at grade B or above in Mathematics and English too. The study of Applied Science only at GCSE is not recommended. We also suggest that studying AS Maths / Use of Maths would be very helpful.

## What does the course involve ?

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The course studied is the OCR Chemistry A specification. The AS course includes Green Chemistry; this enables students to gain insight into key issues such as chemical sustainability and climate change. The A2 course builds on the AS course and allows you to gain a full A level qualification. The first unit includes more in-depth organic and analytical chemistry. The second unit involves complex chemical calculations on rates, enthalpy and equilibria.

It is helpful if AS Chemistry is studied with another science / maths subject to support it. The study of AS or a free standing qualification in Maths is beneficial for the study of Chemistry to A2 due to the mathematical content in the second unit.

### Weightings in Advanced GCE (Full A Level)

Unit	Topics	Total	When
AS Unit F 321	Atoms, Bonds and Groups	15%	January
AS Unit F 322	Chains, Energy and Resources	25%	June
AS Unit F 323	Practical Skills 1	10%	Throughout AS year
A2 Unit F 324	Rings, Polymers and Analysis	15%	January
A2 Unit F 325	Equilibria, Energetics and Elements	25%	June
A2 Unit F 326	Practical Skills 2	10%	Throughout A2 year

## How is it assessed?

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To gain the full A level there are 6 units of study. Two of these units are given over to the assessment of experimental skills, one in the AS and one in the A2. There is no coursework to take home. For the whole A level you will be required to spend 360 Guided Learning Hours in total which means that you will need to study independently as well as at College to do well. The A\* grade can now be awarded to those students performing well in the A2 units.