

A level Chemistry

at Conyers Sixth Form



Have you ever wondered how we know that a multivitamin tablet contains, say, 200 mg of Iron and how you could check? Or why bleach is so good at killing bacteria? Maybe the fact that the smell of caraway seeds and mint are due to compounds with the exact same chemical (and structural) formula makes you wonder...

Chemistry is the study of atoms and how they join together to make the huge variety of materials we see around us, providing us with both the theoretical understanding to explain why things work the way they do. From how and why enzymes function in biological systems, through to the factors that affect the properties of the plastics that cover almost everything we use, chemistry provides the answers. Moreover, we'll provide you with the skills you need to make and analyze some of these chemicals!

Course content

1. Fundamentals: moles, structure and bonding and the periodic table.
2. How far, How fast? - Rates and equilibria
3. Organic chemistry
4. Acids, Buffers and pH
5. Analysis: IR, Mass Spectroscopy & NMR
6. Transition metals
7. Practical design and evaluation



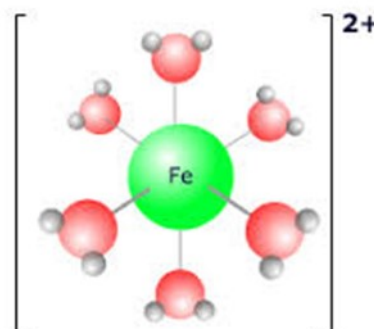
Assessment

At the end of year 13 you will take three papers, totalling 6 hours of exams.

You will also be required to complete a write up 12 practicals within the two years for the practical endorsement.

Chemistry: A hands on experience

- Extensive practical development program throughout the course to provide the skills
- Full practical day to carry out longer synthesis
- Experimental design and evaluation integrated part of the course.



What can you do with A level Chemistry?

Careers include:

- Medicine and other healthcare professions such as physiotherapy, radiography, nursing, nutrition, midwifery, dentistry
- Materials research and development
- Forensic science
- Chemical Engineering
- Drug research and development

Dentistry



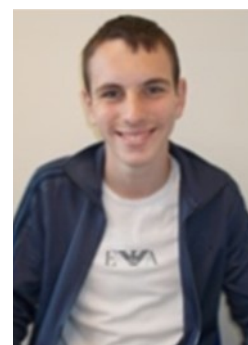
What you need: A level chemistry, biology and one other subject, typically all A's

“Chemistry helps develop skills that can be applied to dentistry such as problem solving, practical manipulation and mathematics. I personally enjoyed physical chemistry because it combined maths and many ideas that could be proven with definite numerical answers.” -Zahra

Pharmacy

What you need: A level Chemistry, Biology and one other subject, grades at A/B

“The thing that has interested me most is organic chemistry shows us how so many different compounds can exist and how they can be changed into other compounds.” -Anthony



Chemistry Exam Board: OCR (A spec)

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Conyers Sixth Form

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