

A Level Chemistry



"We think there is colour, we think there is sweet, we think there is bitter, but in reality there are atoms and a void."
Democritus, c.460 – c.370 BC

Chemistry is helping us to cope with increasing pressures on energy, food, water and other scarce natural resources and helping us to live more sustainably. Chemistry is helping to improve and maintain human health for all in a rapidly changing world.

From skincare to sport, Chemistry is all around us and there are many the ways that Chemistry makes life more enjoyable.



Inorganic Chemistry where you will learn about Group 2, Group 7, the halogens, properties of period 3 elements and their oxides and transition metals.

Organic Chemistry where you will learn about Aldehydes, Ketones, Aromatic Chemistry, Amines, Amino acids, Protein and DNA, NMR and Chromatography.

Physical Chemistry where you will learn about Bonding, Energetics, Kinetics, Chemical Equilibria, Redox, Acids and Bases.

How you will be assessed:

2 x 2 hour written exams, 105 marks each, 35% A-Level each.

1 x 2 hour written exam, 90 marks, 30% A-Level.

What you need to get started:

To be successful in Chemistry you will need a keen interest in Science in general and a strong work ethic. Chemistry requires both problem solving and logical thinking skills and you will continuously develop these throughout the course. Having a positive attitude towards challenges and riddles is also a must. You will need to be able to communicate ideas clearly and be comfortable with numeracy in order to support ideas with

mathematical proof and evidence. Students require GCSE grades 6 and above in Science, along with grade 5 in Maths.

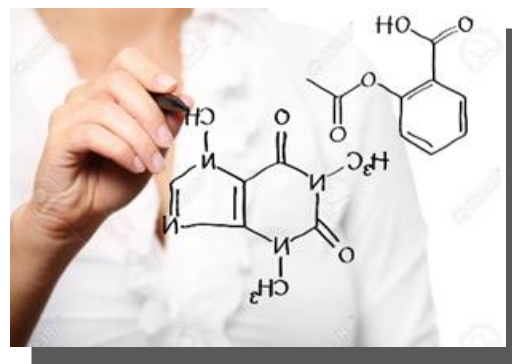
What our students say:

"Chemistry is difficult, but when you understand it and you get the right answer it becomes more fun! When you get into the flow of knowledge and it starts making sense it gets really exciting. There is nothing better than getting an application of knowledge question and you nail it!! "

Eeba 2020

"I really enjoy the practicals as we get more independence than we did at GCSE. I enjoy being given the opportunity to work out what steps we have to take and understand why we are doing them."

Zoe 2020



What next?

Chemistry based degrees:

Pure Chemistry, Biochemistry, Chemical Engineering, Medicinal Chemistry and Colour Chemistry.

None Chemistry based degrees:

Medicine, Veterinary Sciences, Pharmacy, Forensic Science, Bioscience, Optometry, Material Science, Nursing, Midwifery, Sports Science, Geology, Law, Geography and many more.

... pursuing excellence