



Callington Community College Sixth Form

'Getting the most from our Sixth Form learners'



A Level Chemistry

What you will learn:

Students will study the development of the periodic table and learn to understand the subtle trends it unearths. The properties of materials will be studied and students will learn how to perform the calculations that underpin all of chemistry. Students will study the chemistry of crude oil and learn how such a simple material gives rise to the vast array of plastics, medicines and everyday materials. In organic chemistry there is a focus on the chemistry of benzene and phenol and how they lead into modern drug discovery and materials research. The work will also encompass physical chemistry, understanding the behaviour of acids, equilibria, energetics and kinetics. Students will also study aspects of the transition metal elements to understand their unique and complicated behaviour.

Elements of the course:

Practical work underpins all of chemistry and the lessons will endeavour to include experimental work wherever possible, especially during the kinetics topics and of course titrations. We will explore abstract concepts via modelling and simulation. We will also research and explore modern issues surrounding the subject to fully appreciate the discoveries being made every day in chemistry and discuss the impact these will have on our lives and future.

Where could it take me?

Anywhere in the world, chemistry is one of the most useful and respected a-Levels and is valued everywhere. It is respected due to its variety and rigour and will open a whole series of doors at higher education. It is the main requirement for any medical course and if anyone has ambition to study medicine, dentistry or veterinary courses, chemistry is essential.

Assessment:

You will be continually assessed in your practical competencies through a minimum of 12 prescribed experiments. There is no longer a practical examination, rather the skills are monitored throughout the course and assessed in the written papers at the end of the course. There are three papers at the end of the two year cycle, Paper 1 examines Physical and Inorganic Chemistry, Paper 2 covers Organic and Physical Chemistry, Paper 3 covers the practical work and any component of the course.

Entry Requirements

Minimum Required:

Level 6 in Chemistry
Level 6 in Mathematics, Level 5 in English. **Standard Sixth Form entry requirements.**

Preferred Requirements:

Level 7 in Chemistry
Level 6 in Mathematics, Level 6 in English

Special Requirements: