

LEVEL 3 / A LEVEL

CHEMISTRY

Chemistry is the study of how the elements and their compounds behave. It overlaps with Physics and Biology as chemical principles underpin the physical environment in which we live, as well as all biological systems.

Specific course entry requirements

College entry to include Double Award GCSE Science Higher Tier 6,6 (or above) or GCSE Chemistry 6 (or above) plus a minimum of either GCSE Biology 6 or GCSE Physics 6. You must also have achieved GCSE Mathematics grade 5 or above (please refer to the Entry Requirements section on the college website for further details).

Introduction

In this course you will develop essential knowledge and understanding of fundamental chemical concepts, as well as a variety of areas of chemistry, and you will gain an understanding of how these relate to each other. You will also develop a deeper appreciation of how chemistry plays a major role in providing the comfortable modern lifestyle we enjoy and how it contributes to the success of the economy and to society more broadly.

How will I be assessed?

100% Examination. Practical skills are embedded within the course and are assessed as part of the practical endorsement of the A level as well as in the written examinations.

What will I study?

Topics covered during the course include quantitative chemistry, atomic structure, chemical bonding and the periodic table, organic chemistry, transition metals, acids and amines energy changes, rates of reaction and equilibria. The course also includes practical work, which helps develop your understanding.

Where will this course lead me?

Chemistry impacts on every part of our daily lives. Without chemistry there would be no plastics, cosmetics, brightly coloured dyes or synthetic fibres. There would be no drugs to fight disease, nor any methods to monitor pollution. Chemistry is an essential qualification for entry into medicine, dentistry, biological sciences, and veterinary science, and is preferred for entry into physiotherapy.