

# CHEMISTRY

## WHY STUDY CHEMISTRY *at* STONYHURST?

### MORE THAN EDUCATIONAL EXCELLENCE

We will help you to develop and share your individual gifts and talents, learn from others and reach your full potential, preparing you for a successful future, wherever it may take you.

### COURSE ENRICHMENT

#### Chemistry extension group

This is an opportunity for Higher Line students to extend their understanding of chemistry outside of the IB and A level curriculums.

#### Competitions

You will have the chance to participate in external competitions, such as the RSC Olympiad and University of Cambridge's C3L6.

#### EPQ and Extended Essay

Higher Line students choosing Chemistry for their EPQ (A level) or extended essay (IB) undertake practical lab-based research in a topic of their

choice, Stonyhurst Chemistry graduates have gone on to study and enjoy successful careers in a range of disciplines, including:

### PRESTIGIOUS COMPETITION WINNERS

Stonyhurst students have won prestigious Roentgenium, Gold and Silver medals at run by University of Cambridge



### WHAT CAREER COULD I GO INTO?

Stonyhurst Chemistry graduates currently enjoy successful careers in:



Chemistry



Medicine



Veterinary Science



Chemical Engineering



Pharmacy



Biochemistry



## WHAT WILL I LEARN?

Chemistry is fundamental to our world, playing a role in everyone's lives and touching almost every aspect of our existence.

It is often referred to as the central science because it joins together Physics and Mathematics, Biology and Medicine, and Earth and Environmental Sciences.

Knowledge of chemicals and chemical processes therefore provides insights into a variety of physical and biological phenomena.

Apart from being a worthy subject in its own right, Chemistry at Sixth Form level is essential for many Higher Education courses. Stonyhurst chemists go on to study a range of disciplines including Medicine and Engineering.

Employers recognise that a Chemistry course stimulates logical thinking and powers of analysis, and develops transferable skills highly valued in today's workplace.

## WHAT COURSES ARE ON OFFER?

At Stonyhurst College Sixth Form, we offer an A level or International Baccalaureate in Chemistry. Please talk to a member of the teaching staff for more information.

### A level CHEMISTRY AQA (MEI RESOURCES)

- ✓ Physical Chemistry
- ✓ Organic Chemistry
- ✓ Inorganic Chemistry

In addition to studying the theory behind Chemistry, you will carry out a wide range of experiments throughout the course.

You will also keep a detailed lab book, which forms the evidence for achieving the practical endorsement at the end of the course.

## INTERNATIONAL BACCALAUREATE

Chemistry is available for study at IB Standard or Higher Level and has a good balance of practical investigation and theoretical studies. Core topics include:

- ✓ Quantitative Chemistry
- ✓ Organic Chemistry
- ✓ Atomic Structure
- ✓ Kinetics
- ✓ Periodicity
- ✓ Bonding
- ✓ Oxidation and Reduction
- ✓ Energetics
- ✓ Measuring and Data Processing
- ✓ Acids and Bases

All students will also carry out an individual investigation into an area of Chemistry of your choice, and study one option chosen from the following topics:

- ✓ Materials
- ✓ Energy
- ✓ Biochemistry
- ✓ Medicinal Chemistry



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the subject

[www.stonyhurst.ac.uk](http://www.stonyhurst.ac.uk)

LDS

