

# IB Chemistry

## HIGHER AND STANDARD LEVEL

### *What are the aims of the course?*

Students will explore the chemical world we live in. They will develop practical and analytical skills and develop their own investigative skills. They will study a wide range of theoretical topics and throughout the entire course will study the very nature of science. It is designed to be immersive and interactive and is an excellent preparation for studying Chemistry at university.

### *What does it involve?*

#### **Core Modules (SL and HL)**

The core topics studied at both Standard Level and, in more detail, Higher Level are:

Stoichiometric Relationships; Atomic Theory; Periodicity; Chemical Bonding and Structure; Energetics/ Thermochemistry; Chemical Kinetics; Equilibrium; Acids and Bases; Redox Processes; Organic Chemistry; Measurement and Data Processing; one optional unit.

Candidates are required to study one option from the list of below:

- Materials
- Biochemistry
- Energy
- Medicinal Chemistry

SL students study each option for 15 hours and HL candidates for 25 hours a week.

## *How is it assessed?*

### **External Assessment**

The external assessment for Standard Level and Higher Level consists of three written papers which account for 80% of the final mark.

### **Internal Assessment**

The internal assessment for both Standard Level and Higher Level is a practical project which accounts for 20% of the final mark.

It is internally assessed and externally moderated by the International Baccalaureate Organisation (IBO).



## *Are there any specific entry requirements?*

There are no specific entry requirements for studying IB Chemistry, although for HL students it is strongly advised to study Chemistry at GCSE or IGCSE level.

## *Why is it a useful qualification?*

To study Chemistry is to study the world in which we live. This central science is essential for future medical doctors, dentists and vets.

It is fundamental to forensic science and environmental science, and opens doors to more science courses at university than any other subject.

Chemical engineers are in demand all over the world, and are the highest paid of all UK engineers.

It contains significant transferable skills that will help all students with their studies in Higher Education whether they choose to study Chemistry or anything else.