



## Chemistry

### Who is this course for?

The course is ideally suited for students who require an A-level in a Science and who wants to continue to study any science related course at Higher Education. Studying A-Level Chemistry equips you with skills in research, analysis and the ability to understand and handle complex concepts to your advantage. The rich platform of skills and qualities that this course develops makes it HIGHLY respected by universities and employers.

### What will I study?

A-level Chemistry attempts to answer the big question 'what is the world made of?' and it's the search for the answer that makes this subject fascinating.

#### Year 12

##### Physical chemistry

Including atomic structure, amount of substance, bonding, energetics, kinetics, chemical equilibria and Le Chateliers principle

##### Inorganic chemistry

Including periodicity, Group 2 the alkaline earth metals, Group 7 (17) the halogens

##### Organic chemistry

Including introduction to organic chemistry, alkanes, halogenoalkanes, alkenes, alcohols, organic analysis

#### Year 13

##### Physical chemistry

Including thermodynamics, rate equations, the equilibrium constant  $K_p$ , electrode potentials and electrochemical cells

##### Inorganic chemistry

Including properties of Period 3 elements and their oxides, transition metals, reactions of ions in aqueous solution

##### Organic chemistry

Including optical isomerism, aldehydes and ketones, carboxylic acids and derivatives, aromatic chemistry, amines, polymers, amino acids, proteins and DNA, organic synthesis, NMR

### How will I be assessed?

There are three exams at the end of the two years for A-level, all of which are two hours long. At least 15% of the marks for A-level Chemistry are based on what you learned in your practicals.



## **Glossopdale Sixth Form Course Information**



**Course entry requirements** Five GCSEs at grade 5 or above in different subjects including English and Maths and recommended 6 in Chemistry and 5s in all the other sciences. If single sciences are not available at your school then you need two grade 6s in the GCSE sciences you are taking.

### **What can I do with this qualification?**

Marine Science, Forensics, Cosmetics, Pharmacy, Lawyer, Journalist, Textiles, Medicine and Nursing, Teaching, Agriculture, Patent Attorney, Environmental Science,

*Chemistry A level is ideal for any degree subject or career!*

**Also consider:** Biology, Mathematics, Physics, Geography, History, IT, English and Psychology.



*With our impressive Sixth Form facilities, outstanding teaching and excellent results we are confident that we can offer you a successful route to university or employment.*

