

CHEMI



Course Content

AS Level content:

Paper 1 - Physical & Inorganic Chemistry

- **Physical Chemistry:**
 - Atomic structure
 - Energetics
 - Chemical equilibria
 - Oxidation, reduction and redox equations
- **Inorganic Chemistry**

Paper 2 - Physical & Organic Chemistry

- **Physical Chemistry:**
 - Amount of substance
 - Chemical equilibria and Le Chatelier's principle
- **Organic Chemistry**

Practical work:

Students will undertake practical activities across the AS Level course, as directed by the Examination Board. These will be internally assessed and provide the opportunity to learn and use practical skills to link theory with practice, so deepening knowledge and understanding. Teachers will 'endorse' the practical work, which if passed, will be reported on the AS Level Certificate. In addition, knowledge of practical skills will be assessed in the written papers.

A Level content:

Paper 1 - Physical & Inorganic Chemistry

- **Physical Chemistry:**
 - Atomic structure
 - Energetics
 - Chemical equilibria
 - Thermodynamics
 - Equilibrium constant K_c for homogeneous systems
 - Acids and bases
- **Inorganic Chemistry**

Paper 2 - Physical & Organic Chemistry

- **Physical Chemistry:**
 - Amount of substance
 - Chemical equilibria and Le Chatelier's principle
 - Rate equations
- **Organic Chemistry**

Paper 3 - Physical, Inorganic & Organic Chemistry

Practical work:

Students will undertake at least 12 practical activities across the A-Level course, as directed by the Examination Board.