CLAIRES COURT
SIXTH FORM

Curriculum Statement

Year 13 - Chemistry
2025 – 2026

Your place to *aim high*

Chemistry

Introduction

All students study the OCR Chemistry A GCE specification, which meets the QCA requirements. There are four one hour lessons per week on the timetable, which are taught by Chemistry specialist teachers. The A level is made up of six modules plus a practical endorsement. Parts of module one, and all of modules two to four, are covered in Year 12. The specification allows for the award of grades A* to E.

Areas of study

In Year 13 students study:

- Module one - development of practical skills in Chemistry
- Module five - physical chemistry and transition elements
- Module six - organic chemistry and analysis
- Practical skills - including planning, implementing, analysis and evaluation continue to feature in all of the modules, the results of which are recorded in students' Lab books.

Autumn term

Modules five and six

- Practical skills - including planning, implementing, analysis and evaluation
- Rates of reactions
- Equilibrium
- Acids, bases and pH
- Aromatic Chemistry
- Carbonyls and carboxylic acids
- Amines, amino acids and proteins.

Lent term

Modules five and six

- Practical skills - including planning, implementing, analysis and evaluation
- Buffers and neutralisation
- Enthalpy and entropy
- Redox and electrode potentials
- Transition elements
- Organic synthesis
- Chromatography and spectroscopy.

Summer term

- Revision of all units including those covered in Year 12.

Assessment

For the A level qualification there are three exams taken in June:

- Periodic Table, Elements and Physical Chemistry multiple choice, short answer and extended responses on modules 1, 2, 3 and 5 (worth 37%)
- Synthesis and Analytical Techniques - multiple choice, short answer and extended responses on modules 1, 2, 4 and 6 (worth 37%)
- Unified Chemistry – short answer and extended responses from content across all modules (worth 26%)
- Practical Endorsement in Chemistry - A practical endorsement granted by a visiting moderator and supported by students' Lab books.

MASTERY

Students will continue to consolidate previous knowledge from year 12 and throughout the year via regular practice and integration of past paper questions. Deeper understanding of the bigger pictures in chemistry is nurtured through wider practical and theoretical application, including in-depth quantification of rate, energy, equilibria and redox, as well as more complicated organic synthesis and identification. By the end of the Chemistry course students will have developed into broadly capable, critical thinkers that are confident, methodical practitioners. Regular formative assessment helps to identify areas for support in learning.

For further information please contact:

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