



CLAIRE'S COURT
SIXTH FORM

Curriculum Statement

Year 12 - Physics
2025 – 2026

Your place to *aim high*

Physics

All students study the OCR Physics A GCE Specification, which meets the QCA requirements. There are four Physics lessons per week on the timetable, which are taught by Physics specialist subject teachers. The full A level is made up of six modules plus a practical endorsement. There are four modules of work to be studied over the first year to be continued into Year 13 for the full A level. The specification allows for the award of grades A to E.

In Year 12 candidates study:

- Module one - Development of practical skills in Physics
- Module two - Foundations of Physics
- Module three - Forces and motion
- Module four - Electrons, waves and photons.

For the full A level qualification all examinations will be taken at the end of Year 13.

Autumn term

Modules one to three

- Practical skills - including planning, implementing, analysis and evaluation
- Physical quantities, units and measurement
- Scalars and vectors
- Motion
- Forces
- Work, energy and power
- Newton's laws of motion and momentum.

Lent term

Continuation of module on and commencement of module four

- Charge and current
- Energy, power and resistance
- Electrical circuits
- Waves
- Quantum Physics.

Summer term

Revision of all units for end of year examinations

Throughout the year the progress of the students will be monitored carefully, through homework set and end of topic tests.

MASTERY

Students will continue to consolidate previous knowledge from GCSE and throughout the year via regular integration of past paper questions. An additional layer of deeper understanding is nurtured through the bigger pictures in Physics such as light acting both as a particle and a wave, the dynamics of launching rockets into space and explaining why specific materials are used in different engineering structures. Practical skills are a fundamental part of the Physics course developing independent, confident and methodical practitioners. Regular formative assessments are embedded to identify areas for support in learning.

For further information please contact:

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