

# PHYSICS A-LEVEL

For more information please see Miss Bates or Mrs McCallister

## For whom is this course suitable?

Students studying Physics at advanced level will have achieved at least grade 6/6 in Combined Science. In addition, a grade 5 or higher in maths GCSE is required. Students studying single sciences will have achieved at least a grade 6 in Physics, and one other science, as well as a grade 5 in maths (pending review)

## What will I learn on this course?

The course covers different key concepts of physics and as students' progress through the course, they will build on their knowledge of the laws of physics, applying their understanding to areas from sub-atomic particles to the entire universe. Practical skills are integrated with the theoretical topics and assessed through both written papers and the Practical Endorsement.

### Course Overview

The content is split into six teaching modules. Modules 1 to 6, combined with the Practical Endorsement, constitute the full A Level. The modules can be summarised as:

**Module 1:** Development of practical skills.

**Module 2:** Foundations of physics.

**Module 3:** Forces and motion.

**Module 4:** Electrons, waves, and photons.

**Module 5:** Newtonian world and astrophysics.

**Module 6:** Particles and medical physics.

### At A Level:

Paper 1 assesses content from Modules 1, 2, 3 and 5.

Paper 2 assesses content from Modules 1, 2, 4 and 6.

Paper 3 assesses content from Modules 1 to 6.

## What could I do at the end of my course?

Physics complements:

- Chemistry and Biology for scientific and medical careers.
- Mathematics and IT for computing and engineering careers.
- The arts and humanities as contrasting subjects.

The physics course offers excellent opportunities for the development of ICT and application of number skills, alongside communication, teamwork and problem solving skills.