

Physics A Level

Course Overview:

Year 1:

- Measurements and their errors.
- Particles and Radiation
- Waves
- Mechanics and Materials
- Electricity

Year 2:

- Further Mechanics and Thermal Physics
- Fields and their Consequences
- Nuclear Physics
- Astrophysics

Assessment:

There are three examinations in Year 13, each 2 hours long.

Paper 1: Year 1 content

Paper 2: Year 2 content

Paper 3: Practical skills, data analysis and Astrophysics

The Practical Endorsement is assessed through the completion of 12 Core Practicals, and is awarded in addition to your A Level grade.

Why would this course suit me?

If you are interested in asking questions and discovering the underlying rules that govern how the Universe works then Physics is for you. A Level Physics covers diverse topics from the very small (subatomic particles), to the very large (universal force of gravity), as well as everything in between. A desire to discover rules and laws, and apply them to new situations is essential to study Physics. A strong background in Mathematics, and a desire to study it further is another important prerequisite. Physicists use Mathematics as a tool to solve problems, and it makes up a significant part of the course.

How does this course link to other subjects?

Physics complements the other Sciences well; Biology and Chemistry, as well as Technology and IT. It is a perfect partner for Mathematics as many skills and concepts are common to both courses.

Examination Board:

AQA

Entry Requirements:

Grades 666 in Separate Sciences OR Grades 66 in Combined Science PLUS Grade 6 in Mathematics

Potential Career Opportunities:

As a facilitating course, Physics can lead to a wide range of University courses, STEM Careers, Research, Engineering (Mechanical, Electrical, Electronic, Civil, Structural), Aerospace, Astronomy, Robotics, Computer Science, Communications, Nanotechnology as well as careers in the Military.

