

# Physics



## What our students say:

“Our physics teachers show extensive knowledge of the subject and encourage us to engage with physics beyond the curriculum through wider reading and supercurricular activities. I really enjoyed learning about astrophysics.”

## Why this course is right for you:

Look at the world around you; physics is the only subject which explains the universe from small to large, from the beginning to the end. Via topics ranging from Quantum Mechanics to the Origins of the Universe, physics A Level considers how and why things work. If you want to understand where you came from and where you are going to, then continuing your study of physics is right for you.

Time and time again, employers have listed physics as one of the most respected A Levels, and it can prepare you for careers including medicine, engineering, further education, research, the MOD and computer science.

## What you need to know:

**Exam Board: OCR**

**Who to speak to: Mr Arden**

### Topics Covered:

- Topic 1: Development of practical skills
- Topic 2: Foundations of physics
- Topic 3: Forces and motion
- Topic 4: Electrons, waves and photons
- Topic 5: Newtonian world and astrophysics
- Topic 6: Particles and medical physics

### Assessment:

- 100% written examination in Year 13
- Breadth in physics examination
- Depth in physics examination
- Modelling physics examination
- Exploring physics examination
- Unified physics examination

### Entry Requirements:

- Grade 6 in GCSE Physics or Grades 6, 6 in Combined Science and Grade 6 in Maths required
- Grade 7 in GCSE Physics or Grades 7, 7 in Combined Science and Grade 7 in Maths desired

### Co-curricular/trips:

- There are a range of enrichment activities including the British Physics Olympiad and annual CERN trips.