

A Level Physics

Entry Requirements

GCSE grade required: grade 7 in GCSE Physics or Combined Science and a grade 7 is preferred in GCSE Maths.

Exam Board

AQA

Course Content

A Level Physics 7408

- 1. Particles and Radiation**
 - Matter and radiation
 - Quarks and leptons
 - Quantum phenomena
- 2. Wave and Optics**
 - Waves
 - Optics
- 3. Mechanics and Materials**
 - Forces in equilibrium
 - On the move
 - Newton's law of motion
 - Force and momentum
 - Work, energy and power
 - Materials
- 4. Electricity**
 - Electric current
 - DC circuits
- 5. Further Mechanics and Thermal Physics**
 - Motion in a circle
 - Simple harmonic motion
 - Thermal physics
 - Gases
- 6. Fields**
 - Gravitational fields
 - Electric fields
 - Capacitors
 - Magnetic fields
 - Electromagnetic induction
- 7. Nuclear Physics**
 - Radioactivity
 - Nuclear Energy
- 8. Turning Points in Physics**
 - The discovery of the electron
 - Wave particle duality
 - Special relativity

The Practical Endorsement assesses the practical skills gained during the two years of study.

Future Pathways

An A level in Physics will enable you to access a future in all types of engineering, radiology, astronomy, oceanography, optometry, climatology, environmental health cartography, colour technology, food science, forensic science, archaeology, marine science, pilot, naval architecture, medicine, dentistry.

