

# Physics



## A Level

### Entry Requirements

Grade 5 in GCSE English Language **or** GCSE English Literature **and**  
Grade 6 GCSE in Mathematics **and**  
Grade 6 in GCSE Physics **or**  
Grade 6/6 in GCSE Combined science

### Course Overview

Physicist look for all the hidden laws that explain why all matter and energy in the known universe exists, where it comes from and how it behaves the way it does. This study is important to help develop new materials, machinery and technology to improve our lives. Physicist deal with the very small and the very big. Physics will support your study of other science and tech subjects including chemistry, biology, engineering, geography and IT. Physics is especially closely linked to maths, so studying the two together can improve your skills in both. Physics will also help you to build upon problem solving, research and analytical skills. You will be able to investigate other people's theories, which is useful for any job that involves research or debate. Having an A Level in physics can be useful for getting onto a wide range of university courses and you may need it for some advanced, higher and degree apprenticeships in engineering or to work as a science technician.

### Exam Information

Duration: 2 years

Exam Board: AQA

Contact: Miss A Heath/ Mr M Harris

- 1 – Measurements and their error
- 2 – Particles and Radiation
- 3 – Waves
- 4 – Mechanics and materials
- 5 – Electricity
- 6 – Further mechanics and thermal physics
- 7 – Fields and their consequences
- 8 – Nuclear Physics
- 9 – Option – Astrophysics (Subject to change)

Two mock exams in May/June of first year.

Three exams in May/June of second year.

### Qualification Gained

A Level Physics Practical Endorsement Certification

### Career Opportunities

Physics is useful for the majority of STEM careers including Medicine, Astronomy, Teaching, Forensic Science, Pharmacology, Optometry, Astronaut, Armed Forces, Electronic/Mechanical Engineering, Civil Service, Secret Service, Games Development and Technology, Robotics, Computer Science and Nanotechnology.

### Subject Links

Biology, Chemistry, Mathematics, ICT