

A-LEVEL / AQA / 2 YEARS

PHYSICS

We follow the AQA specification for A-level Physics. The course will develop a much deeper understanding of some familiar topics from GCSE and introduce whole new areas of theory.

TOPICS AT A-LEVEL

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and materials
- Electricity
- Further mechanics and thermal Physics
- Fields and their consequences
- Nuclear Physics
- Option topic

Theory lessons will concentrate on the students' understanding of physical concepts, with a particular focus on the development of analytical and problem-solving skills. Practical work is undertaken to link theory to reality and develop scientific investigative skills. Progress is regularly monitored using exam-style assessments.

ASSESSMENT

The A-level is 100% assessed by written exam at the end of Year 13

Paper 1 - Core topics (2hrs, 34%)

Paper 2 - Core topics (2hrs, 34%)

Paper 3 - Practical skills and data analysis & option topic (2hrs, 32%)

SUBJECT COMBINATIONS

Physics complements the study of Mathematics and Chemistry. Due to the mathematical content in the specification, it is strongly recommended that students undertake either A-level Mathematics or Mathematical Studies.

CAREERS/HE INFORMATION

Physics is a solid choice for students considering a career in medicine, veterinary science, dentistry, computing, chemistry, biology, mathematics and environmental science. Physics will also prepare students for industry careers, such as those within the engineering or electronics sectors.