

Physics

Why this course is right for you

Studying Physics gives an understanding of some of the basic principles of the universe. Physics seeks to develop your understanding from the smallest point to our largest concept. The complexities of the very large (cosmology) and the very small (quantum) are fascinating and often surprising.

You should have developed an interest in the world around us and how mathematics explains the fundamental concepts of why things happen.



Course Content

Exam board: AQA

Head of Department/Faculty: Ben Millett

Year 1 Topics

- 1 Measurements and their errors
- 2 Particles and radiation
- 3 Waves
- 4 Mechanics and materials
- 5 Electricity

Year 2 Topics

- 6 Further mechanics and thermal physics
- 7 Fields and their consequences
- 8 Nuclear physics
- 9 Astrophysics

Assessment:

Paper 1: 34%

Paper 2: 34%

Paper 3: 32%

Additional Experiences

Trip to CERN (Geneva) is planned to visit the large hadron collider.

Subject Entry Requirements

Grade 6 GCSE Chemistry or Grade 6-6 GCSE Combined Science and Grade 6 in Maths.

Beyond A Levels

Physics is a key A-Level requirement for several university courses including Physics and Engineering. In addition, A-Level Physics is a highly regarded qualification for any university course, apprenticeship and future career.

Going further

There are many resources available to extend your Physics knowledge prior to beginning 6th Form. Try watching The secrets of quantum physics available on BBC iplayer.

**“We cannot solve our problems
with the same thinking that
created them.”**

Albert Einstein