

Physics

Examination Board: AQA A Level in Physics: 7408

What will I learn?

In short, the governing principles of the Universe.

The course will cover everything from sub atomic particle interactions to why accretion disks allow us to understand the nature of black holes.

The course builds on all topics covered at GCSE level and introduces new concepts, ideas and the mathematical principles we use to explain the world around us.

What is the structure of the course

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and materials
- Electricity
- Further mechanics and thermal physics
- Fields and their consequences
- Nuclear physics
- One of the following optional units - Astrophysics, Medical physics, Engineering physics, Turning points in physics, Electronics

Who is the course suited to?

Students who take A-Level Physics can go on to study Physics, Applied Physics, Astrophysics, Theoretical Physics, Mathematics, Aircraft Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, or Architecture. Physics has a strong focus on the use of Mathematics to solve problems such as the force of attraction between two objects or the mass of an electron. This makes Physics the perfect partner for other STEM subjects like Mathematics, Design Technology or Chemistry.

Assessment

Examination comprises of three two hour papers.

There is no coursework component, however, practical skills will be assessed throughout the course.

Reasons to consider doing Physics at A Level:

- Physicists are involved in finding solutions to many of our most pressing challenges – as well as studying atoms or making sense of the extra-terrestrial, physicists diagnose disease, model the climate, design computer games, predict markets and design hi-tech goods.
 - It is widely recognised by universities as a key facilitating subject and so opens up many options when looking to apply to university.
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