GCE A Level Physics

Duration:

1 Year for AS, 2 years for A level (A2). 4 examined units make up the AS level and 6 examined units are required for the full A level qualification.

Specification:

OCR Physics A

Further details are available from their website

Entry Requirements/Student Suitability:

Students are required to achieve:

- Grade B or above in at least 2 of the Separate Science GCSEs

OR

- Grade B or above in both Core **and** Additional Science GCSEs.

In addition to these Science GCSEs you also need

- Grade B or above in a Maths GCSE

The course needs good mathematical ability and, although not essential, it is recommended that A-level Mathematics is also studied.

Course Content:

Content is split into six teaching modules:

- M1 – Development of practical skills in physics
- M2 – Foundations of physics
- M3 – Forces and motion
- M4 – Electrons, waves and photons
- *M5 – Newtonian world and astrophysics (A2 only)*
- *M6 – Particles and medical physics (A2 only)*

AS Exams:

- Breath in Physics *(Assesses M1-4)*
- Depth in Physics *(Assesses M1-4)*

For those students who continue to the A2 course these exams will not count towards their final grade.

A2 Exams:

- Modelling Physics *(Assesses M1, 2, 3 and 5)*
- Exploring Physics *(Assesses M1, 2, 4 and 6)*
- Unified Physics *(Assesses M1-6)*

There is also a practical endorsement for Physics which is reported separately and is assessed by the course teachers based on ongoing practical work throughout the two years of the course.

For further information and exemplar question papers see the exam board website.

Methods of Study:

Practical activities.
Demonstrations of Physics principles.
Working through physics problems in small groups.
Group work on presentations, posters, etc.
Using ICT to research and present information.
Practice exam questions.

Independent Study Time:

A successful Physics student will keep up to date with developments in Science by reading news articles and watching documentaries such as Horizon to broaden their Physics knowledge. They will need to review topics covered in lessons as well as preparing for the topics to be taught. In addition to this, this they will need to complete practice exam questions and other specific homework tasks on a regular basis. These will be assessed regularly and allow us to monitor progress and feedback strategies for improvement to the students.

Progression and the Future:

For those with an ambition to be at the forefront of developing technologies and theories that describe our reality it is necessary to study physics at A-level and beyond. For students with ambitions in other areas such as business management or finance the study of physics during senior school is also important even if those students do not intend to study physics or science at university. It demands respect from many employers and university administration officers as it provides students with excellent analytical, problem solving and quantitative skills.

Subject Contacts:

Mrs Williams
jwilliams@wadebridge.cornwall.sch.uk

How to Apply:

The Application Process begins in February of each year. Please contact Sarah Fisher, Sixth Form Administrator for further information or to request an application form.
sixthform@wadebridge.cornwall.sch.uk

For further information and to apply for this course:

Please contact **Sarah Fisher, Sixth Form Administrator**
sixthform@wadebridge.cornwall.sch.uk
Telephone **01208 893905** or **07807 301462**