

A-Level Physics at West Hatch



Physics student destinations

- *Birmingham:
Chemical Engineering*
- *St George's :
Medicine*
- *Sussex:
Physics and Astrophysics*
- *Southampton:
Marine Biology*
- *Greenwich:
Computing*
- *City:
Civil Engineering*
- *University of Leicester
Aerospace Engineering*
- *University of Lincoln:
Chemistry*
- *Cardiff:
Biomedical Sciences*
- *Newcastle:
Civil Engineering*
- *City :
Math's science with
finance and Economics.*
- *Manchester:
Aerospace Engineering*
- *Sussex:
Chemistry.*

Why Study Physics?

There are many reasons to pick A-level Physics including:

- Because you are good at it
- Because you enjoy it
- Because it can lead to a wide range of future careers
- Because it is a facilitating subject for Russell Group and Oxbridge universities
- Because it teaches a wide range of transferrable skills

Why Choose West Hatch for Physics?

At West Hatch you can expect:

- Excellent teaching
- Supportive staff
- A course with real life links
- Regular assessments, analysis and feedback within 24 hours
- Targeted intervention for underachievement
- Booklets of exam questions and other resources
- Peer coaching from high achieving students

The physics department consistently achieve excellent results.

Entry Requirements

The entry requirements for A-Level physics are

- Meet basic entry requirements to 6th form
- Grade 6 triple science physics or grade 7 in double combined science
- Mathematics grade 6 is required; as 20% of assessment requires a mathematical response

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OCR Physics A-Level: Course Outline

Physics A : A content led approach.

A flexible approach where the course is divided into topics covering different key concepts of physics. As you progress through the course you will build upon your knowledge of the laws of Physics, apply your understanding to solve problems on topics ranging from sub atomic particles to the entire universe.

You will develop knowledge and understanding of different areas of the subject and how they relate to each other. You will develop competence and confidence in a variety of practical, mathematical and problem solving skills. You will develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods. You will understand how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society.

Content overview: content is split into 6 teaching modules.:

Year 12 Topics

1. Development of practical skills
2. Foundation of physics
3. Forces and motion
4. Electrons, waves and photons.

Year 13 Topics

5. Newtonian world and astrophysics.
6. Particles and medical physics.

Assessment Overview

As level:

- ◇ Breadth in physics . 70 marks . 90 min written paper. 50 % of total As level.
- ◇ Depth in physics . 70 marks. 90 min written paper. 50 % of total As level.

Both components include synoptic assessment.

A level:

- ◆ Modelling physics. 100 marks. 135 minutes written paper. 37% of total A level.

Component 1 assesses content from module 1, 2, 3 and 5

- ◆ Exploring physics. 100 marks. 135 minutes written paper. 37% of total A level.

Component 2 assesses content from module 1, 2, 4 and 6

- ◆ Unified physics. 70 marks. 90 mins written paper. 26% of total A level.

Component 3 assesses content from all modules.

- ◆ Practical endorsement in physics. Non exam unit. Reported separately. A minimum of 12 practical activities . Demonstration of required standard will result in a pass .