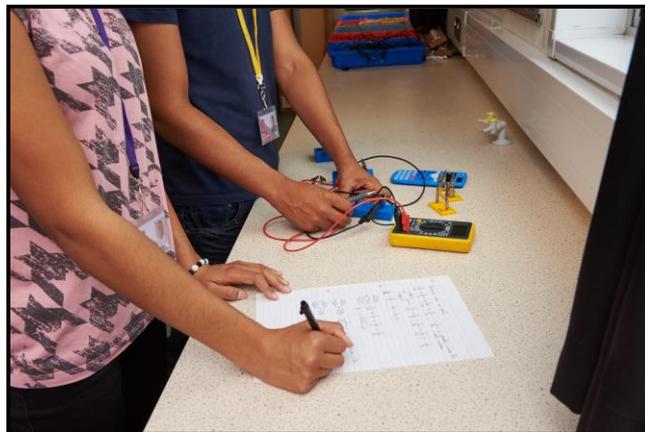


# Nower Hill 6th Form:

*Inspiration, excellence,  
opportunity - a confident future*

## PHYSICS A Level



### Who is the course for?

This course will help you to develop a clearer understanding of the underlying principles of an increasingly technological world. You will develop your ability to apply physical principles and concepts to dealing with everyday problems that require logical and lateral thinking. Physics is the study of the fundamental laws that govern all natural phenomena. It pervades every part of the world. Its methods and insights are widely applicable, and its practitioners widely sought.

### What can it lead to?

This course can open up a range of careers and higher education courses in engineering (including disciplines such as mechanical, civil, electrical), architecture, mathematics, physics and astrophysics. A qualification in physics will also be advantageous for students who are interested in the following sectors:

- Defense (e.g. analyst/research/communication)
- Aeronautics
- Space
- Health (e.g. medical physicist)
- Energy (e.g. energy generation/geophysicist)
- Finance
- Transport

In addition, a qualification in physics would be highly valued by any employer in any field as it demonstrates clear academic and numerical ability.

### What are the entry requirements?

Students must achieve grade 6 or above in GCSE Physics and grades 5 or above in both GCSE Biology and GCSE Chemistry OR at least grades 8-7 in Combined Science. A Grade 6 in GCSE Maths is also required and students must also study AS Maths.

Due to the difficult nature of this subject a test will be set after the first three weeks of teaching. This will be based on GCSE content, summer work and content covered in class during the first three weeks. One re-sit opportunity will also be given but if a student does not pass this test then it will not be possible to continue on this course. This test has been introduced based on clear evidence which shows that students who struggle with the initial content often fail to attain a GCE pass at E or above.

### What will I Study?

The course will enhance your ability to think clearly and to construct logical and reasoned arguments. There will be a high level of problem solving and opportunities to improve communication skills. You will need to be able to communicate effectively, carry out research and critically think about problems. The A level qualification can be awarded at the end of year 13 following **three** exams sat at the end of the year 13.

### How will I be taught?

**There are 5 hours of lesson time per week and a further 5 hours of private study. Lessons consist of teacher explanation, practical work, student questioning and exam preparation.**

Homework: 5 hours - Two pieces per week – one from each teacher. The work will include short answer questions, data handling exercises, experimental write up and reading. You will be given a past exam paper pack to be completed throughout the year.

### How will I be assessed?

Edexcel Specification.

Exams 100%.

A level consists of 3 papers at the end of year 13.

The AS qualification can be awarded at the end of year 12 following **two** exams sat at the end of the year 12 for students who choose not continue Physics into Year 13.

### What equipment or materials will I need?

Text books to purchase will be advised prior to commencing the course.

### Are there any links to other courses?

There are significant links with AS Mathematics and the two courses can overlap significantly, Mechanics being a particular example.