

# Why Choose Physics?

**Physics** helps you to understand the world around you. It involves the study of matter and its motion through space and time, along with related concepts such as energy and force in order to understand how the universe behaves. The wide variety of topics studied range from Solids under Stress, Wave Properties and Quantum Mechanics to Nuclear Energy and Medical Physics.



Choose Physics as an option and you access many enrichment activities to widen your experience. The opportunities include the Yr 7 Science Buddy Scheme, EESW Young Engineers' Scheme, Headstart Courses, University Visits, Sutton Trust Summer School, Cambridge Senior Physics Challenge and QIPTIQ Scholarship Programme.



**At the Alun School,**  
our experienced teaching team provide expert  
guidance and tuition in 5 weekly lessons.

In addition, supplementary tutorials and an exclusive online support network are available.

# Physics

## Assessment Information

### A Level Units

**AS Unit 1** - Motion, Energy and Matter - 1 hour and 30 minutes written examination that makes up 20% of qualification.

**AS Unit 2** - Electricity and Light - 1 hour and 30 minutes written examination that makes up 20% of qualification.

**A2 Unit 3** - Oscillations and Nuclei - 2 hours and 15 minutes written examination that makes up 25% of qualification.

**A2 Unit 4** - Fields and Options - 2 hours written examination that makes up 25% of qualification.  
Section A: a mix of short answer and extended answer questions with some set in a practical context.  
Section B: a choice of answering one question from 4 options.

**A2 Unit 5** - Practical Examination comprising of Experimental Task and Practical Analysis Task that makes up 10% of qualification.

## Entry Requirements

You should have achieved a Grade B or above in Higher Tier GCSE Physics or Science.

A strong background in mathematics is also advantageous, as the mathematical demand at A Level is significantly above that of GCSE. Students will require at least a Grade B at GCSE Maths to be accepted.

## Progression Routes

The skills and knowledge you will gain through the study of Physics, together with the enrichment activities that are available to you, are valued in many careers and will be invaluable in enabling you to go on to study a wide range of courses.

A large proportion of our Physics students undertake degrees at Russell Group universities.

Physics will give you a good grounding for multiple career opportunities including:



**“Physics is an enjoyable but challenging subject. Teachers are enthusiastic and dedicated and gave me excellent knowledge into engineering principles, which stood me in good stead for university.”**

*Harry Lewis, Chemical Engineering at Manchester University.*

**“I find Physics fascinating and the teachers in the Physics department bring it to life. An awesome course!”**

*Andrew Hannington, Physics at St Andrews University.*

**“I found that the A Level Physics course that I took gave me a great grounding. The way the course was taught helped me understand the big picture without losing the detail required .”**

*Cameron Duffield, Mechanical Engineering at Sheffield University.*