

# A Level Physics



**Exam Board:** AQA

**Entry Requirements:** grade 6 or above in Physics or 6/6 in Combined Science.

## Why study Physics?

Physicists look for all the hidden laws that explain why all matter and energy in the known universe exists, where it comes from and how it behaves the way it does. Physicists use the laws they uncover to develop new materials, machinery, and technology to improve our lives and help us explore the universe further, from computers to telescopes and spacecraft.

**Physics will help you to build up your problem solving, research, and analytical skills.** With these skills you'll be able to test out new ideas plus question and investigate other people's theories, which is useful for any kind of job that involves research or debate.

## What does the course involve?

### Core Content:

1. Measurements and their errors
2. Particles and radiation
3. Waves
4. Mechanics and materials
5. Electricity
6. Further mechanics and thermal physics
7. Fields and their consequences
8. Nuclear physics

Paper 1	Paper 2	Paper 3
<b>What's assessed:</b> Any content from topics 1– 5 and 6.1 (Periodic motion)	<b>What's assessed:</b> Any content from topics 6.2 (Thermal Physics), 7 and 8.	<b>What's assessed:</b> Section A: Practical skills and data analysis. Section B: Optional topic.
<b>Method of assessment:</b> <ul style="list-style-type: none"><li>• written exam: 2 hours</li><li>• 85 marks</li><li>• 34% of A-level</li></ul>	<b>Method of assessment:</b> <ul style="list-style-type: none"><li>• written exam: 2 hours</li><li>• 85 marks</li><li>• 34% of A-level</li></ul>	<b>Method of assessment:</b> <ul style="list-style-type: none"><li>• written exam: 2 hours</li><li>• 80 marks</li><li>• 32% of A-level</li></ul>
<b>Questions:</b> <ul style="list-style-type: none"><li>• 60 marks: a mixture of short and long answer questions</li><li>• 25 marks: multiple choice questions on content</li></ul>	<b>Questions:</b> <ul style="list-style-type: none"><li>• 60 marks: a mixture of short and long answer questions</li><li>• 25 marks: multiple choice questions on content</li></ul>	<b>Questions:</b> <ul style="list-style-type: none"><li>• 45 marks: short and long answer questions on practical experiments and data analysis</li><li>• 35 marks: short and long answer questions on optional topic</li></ul>

## **Where will Physics lead me post Sixth Form?**

Physics is a seriously useful subject for the majority of STEM (science, technology, engineering and maths) careers and you'll find physicists everywhere, in industry, transport, government, universities, the armed forces, the secret service, games companies, research labs and more.

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