

### What is Physics A Level?

A-level Physics allows students to appreciate how fundamental Science works and to study optional topics that particularly interest them – including Astrophysics, Medical Physics and Applied Physics.

A-level Physics builds on the concepts and skills developed in the Physics GCSE and is particularly suitable for students who have the skills and knowledge associated with a GCSE Additional Science course or equivalent.

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.

Physicists who study A level physics go on to 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.

### WHAT WILL I LEARN?

#### What content will I cover?

Paper	Topics	Weighting	When
1	✓ Periodic motion	34%	Year 12
2	✓ Thermal physics	34%	Year 12
3	✓ Practical skills and data analysis + option choice	32%	Year 13

#### How will I be assessed?

You will take all three A Level examinations at the end of Year 13. All of the exams are two hours long.

### WHERE CAN PHYSICS A LEVEL TAKE ME?

Physics is a seriously useful subject for the majority of STEM (Science, Technology, Engineering & 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.

Physics is especially helpful for jobs that involve building things and developing new technologies, including: engineering (flight, buildings, space, you name it...), astronomy, robotics, renewable energies, computer science, communications, space exploration, science writing, sports and games technology, research and nanotechnology (that's engineering on a seriously tiny molecular scale).

Ultimately an A level in physics can take you anywhere; it shows that you are hard-working and logical with an ability to clearly understand and grapple with complex problems, inside and outside of physics.

### WHAT SKILLS WILL I DEVELOP?

- ✓ Knowledge and Understanding of how things work in the world around you
- ✓ Problem solving applicable across a range of disciplines
- ✓ Analysis and evaluation of complex data
- ✓ Structured and professional report writing, transferable to any other area outside of physics

### WHAT DO I NEED TO ACHIEVE?

You need to meet minimum requirements for maths and physics at GCSE.



### HOW CAN I FIND OUT MORE?

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