



# A-level Physics

Why is the sky blue? What are you made of? How does Joe Root hit the ball so far? How does your mobile phone work? In Physics we look at things from quarks (and they make atoms look gigantic!) right up to galaxies.

This course aims to bring Physics alive and make it relevant to your everyday life. The world (and Universe) around you works in a very special way and we are trying to understand it as much as possible and to use what we find out to improve the lives of those on this planet.

You will develop your knowledge and understanding of the Laws of Physics. They govern the Universe and each of our lives. As if that is not enough, you will learn how to design and carry out experiments, to think logically, how to apply what you know to new situations and develop many new skills.

## What does the course consist of?

We will introduce you gradually to new ideas which you will be able to test out by doing practical work. You will do plenty of practical work to improve your skills, to help you to understand the theory and because it is an important part of Physics. There will be helpful demonstrations, audio-visual resources and practice questions which will help you to develop your understanding of Physics.

There will also be opportunities to discuss concepts and to ask questions and then you'll be able to start coming up with your own ideas which you can bring back to the rest of the group.

You will study topics including: Particles and radiation, waves, mechanics and materials, electricity, further mechanics and thermal physics and nuclear physics.

## What can Physics lead to?

You will probably want to keep on finding out more. There are many different degrees in aspects of Physics; Astronomy, Electronics and Engineering. Or you could apply what you have learned to the study of medicine, medical and biological science, computing, accountancy, journalism, business, design, law... in fact just about anything.

An A-level in Physics is highly regarded across a broad spectrum of university courses, careers and other opportunities. The sky is not the limit in Physics!

Exam board: AQA

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Lancaster Royal  
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State Day and Boarding School for Boys Aged 11 to 18  
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