

PHYSICS A LEVEL



What will happen in my first week?

You will look at the fundamentals of atomic structure by looking at the inner workings of the nucleus and the components of protons and neutrons which introduces Particle Physics and Quantum Mechanics.

Do I need to buy any equipment or kit?

You will be given a booklet of notes, questions and revision material. You should bring a calculator, pens, pencils and a 30cm ruler.

Who will teach me?

We have highly experienced specialist Physics teachers.

What can I look forward to in my first year?

Ever wondered, what the Universe is made of? If protons are positive and neutrons are neutral, why does the nucleus not fly apart? How did the Universe begin? What is antimatter? Could scientists at CERN create a black hole? Physics explores these subjects and puts your Maths skills to work to understand the universe itself.

What will I study in my first term?

You will learn about the fundamentals of particle physics, quantum mechanics and electrical circuits. This will also include the key concepts of Energy and Power including a range of practicals.

Are there any books I need to buy or useful websites I should look at?

Our booklets contain all key material. If you wish to buy a text book I would recommend Oxford AQA Physics 2nd Edition by Jim Breithaupt, but it is not essential. Isaac Science is a brilliant tool for independent study. We will sign up as a class, or you can make your own account. Researching around topics is a great way to boost your understanding. This can be from books, podcasts, documentaries. You will receive a list of recommendations when you enrol.