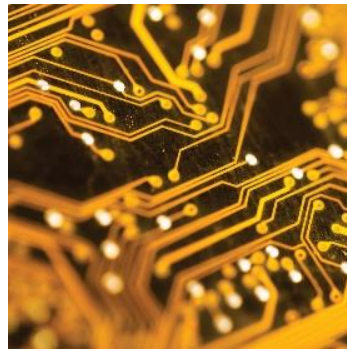
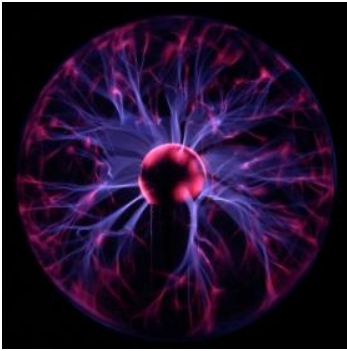


A LEVEL PHYSICS



WHY CHOOSE A LEVEL PHYSICS?



Physicists are fascinated by the world around them and love to solve problems in a variety of contexts: from the subatomic realm of **tiny particles** to the **vast celestial bodies** of the cosmos (and everything in between!).

Physicists need to think logically but also need to be creative in their approach to solving problems. Every topic you study will have a huge range of applications, from **architecture** to **astronomy**, and from **musical instruments** to **medical physics**.

HOW DOES A LEVEL PHYSICS DIFFER FROM GCSE?

Unlike GCSE Physics there are very few equations that you'll need to memorise – Physics is all about finding out **how** things work! By the end of Year 2 you'll be adept at solving problems – a highly sought-after skill by the most competitive Universities and employers.

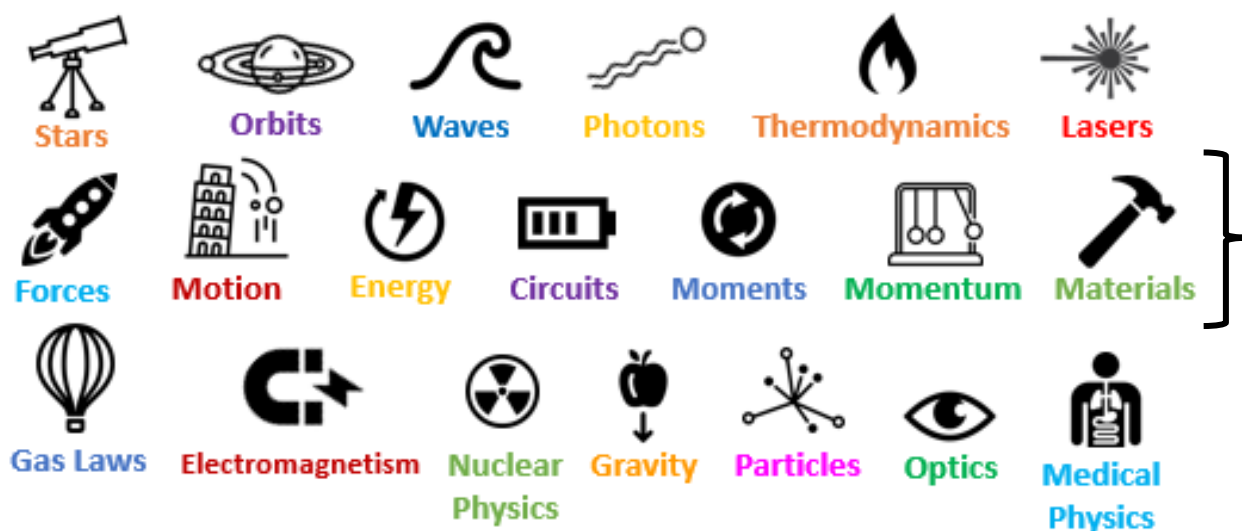
We place a strong emphasis on allowing students to carry out practical activities, not just to develop their practical skills, but to provide them with a full range of learning experiences.



With access to experienced teachers, excellent resources and dedicated Physics workshops, **year after year our Physics students achieve results that exceed the nationwide average.**

WHAT WILL YOU STUDY?

Our sibling sciences, Chemistry and Biology focus on specific areas of science, namely biological processes, and how atoms/molecules interact with one another. Physics deals with quite literally *everything* else!



These topics overlap with many aspects of our Engineering course

OUR APPROACH TO TEACHING AND LEARNING

Building on our reputation for excellent resources:

- We use high-quality learning materials including our unique textbooks (which we produce ourselves) and which have been rated as excellent by our students and by Ofsted inspectors.
- We have a flexible teaching approach and a range of online learning and assessment materials. We set high standards for our students with respect to completing homework and meeting deadlines.
- We have exceptional facilities and class sets of the latest physics equipment. This allows students to complete practical work that would otherwise have to be demonstrated by a teacher.
- Students are able to opt in to our Physics and Engineering Academy programme.
- We are endorsed by Cambridge University's HE+ lecture programme and offer additional lectures to students on higher level topics such as Special Relativity, Acoustics, The Apollo Space Missions and Quantum Mechanics.



A LEVEL ASSESSMENT

Students will be assessed by three written examinations in the summer of year 2.

Component 1 – Newtonian Physics (2 hours 15 minutes) 31.25% of qualification

Component 2 – Electricity and the Universe (2 hours) 31.25% of qualification

Component 3 – Light, Nuclei & Options (2 hours 15 minutes) 37.5% of qualification

In common with all other science A Levels, practical skills will be assessed by your teacher over the two years of the course. A Practical Endorsement certificate will be awarded separately alongside the A Level certificate. Performance in the practical skills will not affect the A Level grade awarded.



Scan this QR code to see a video of Becky, one of our former students, discuss her experience of studying A Level Physics at WSFC. She achieved an A* in physics and went on to study Physics at Durham.



ENTRY AND SKILL REQUIREMENTS

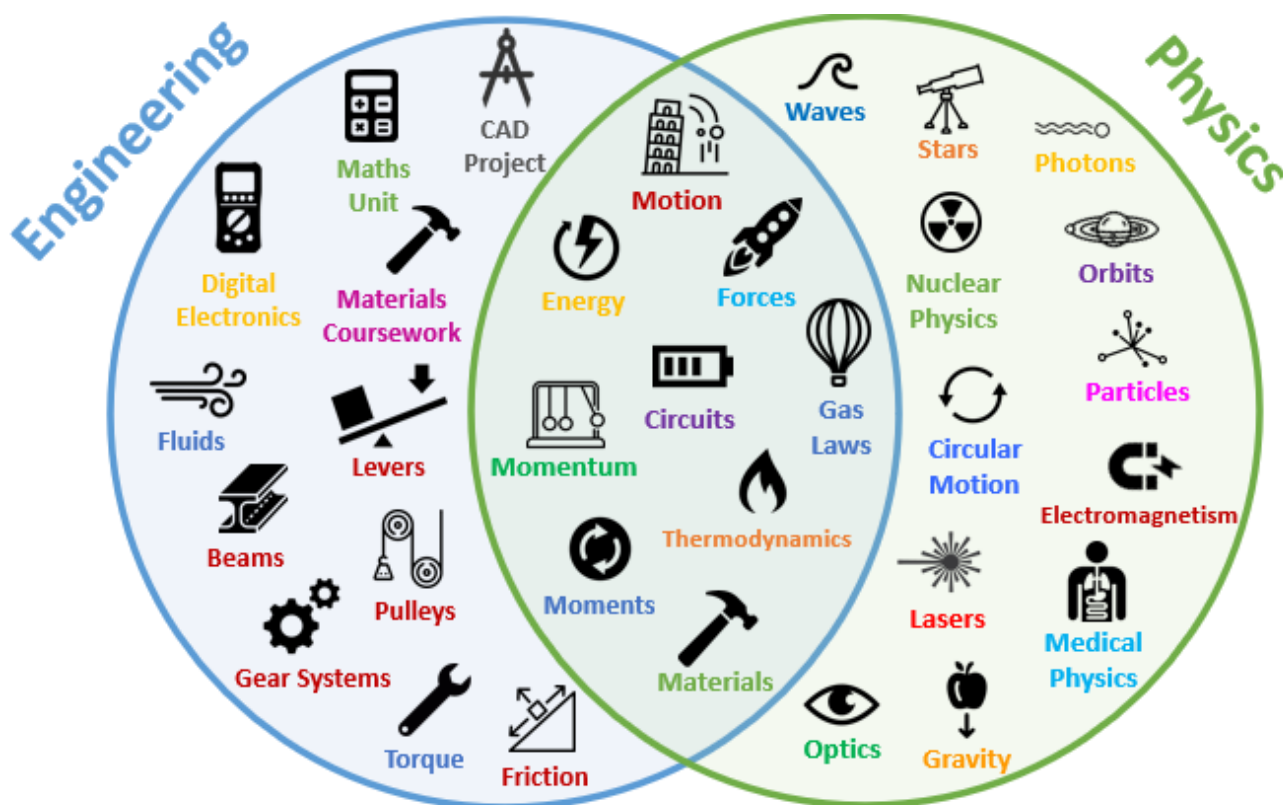
What are the GCSE entry requirements for A Level Physics?

- Minimum of Grade 66 in Combined Science or Grade 6 in Physics and another science.
- Minimum Grade 4 in English and 6 in Maths.

Please bear in mind, there is high maths content in A Level Physics. It is therefore essential that you study one of the following supportive courses alongside A Level Physics in your first year: A Level Mathematics; A Level Further Mathematics; Level 3 Cambridge Technical in Engineering.

What if I don't meet the entry requirements for A Level Physics?

We offer an Engineering course that overlaps significantly with the A Level Physics syllabus. The Engineering course is assessed in a modular format in both year 1 and 2 with a combination of examined and coursework units.



CONTACT US:

Telephone: 01905 362600

Email: enquiries@wsfc.ac.uk



Scan this QR code to see a video of two of our Physics teachers Edd and Chris describing the Physics A Level course and what you will study.