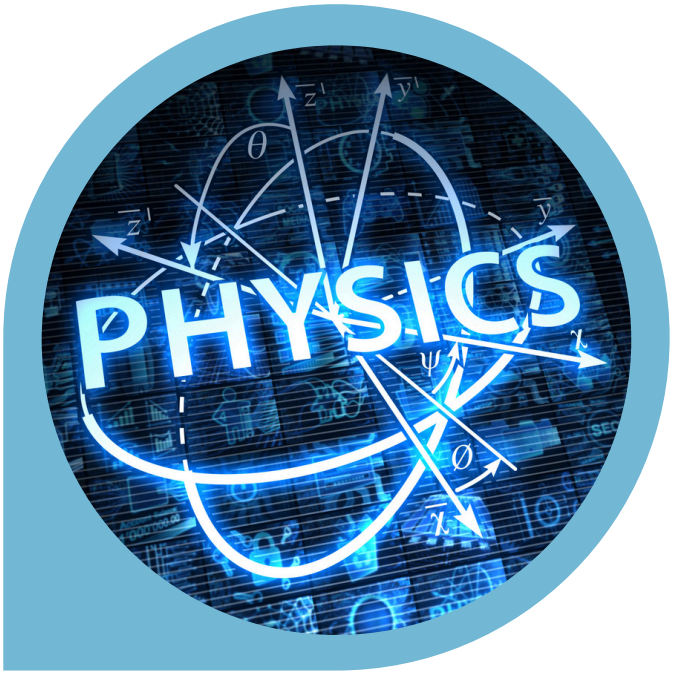
PHYSICS

EXAM BOARD: OCR

EXAMS X 3 PAPERS 100%

Why study Physics?

When you study Physics at Stratford Upon Avon School you will be committing to discovering not only the fundamental underpinning reasons for every aspect of how our universe functions but also to developing a method of thinking, questioning and problem-solving that will allow you to continue to push your understanding of the physical world long after you've stopped directly studying.



Have you ever wondered?

- Why the standby light on a computer or TV stays on for a few seconds after it's been turned off?
- Why is the sky blue?
- Why is the earth round and not square?
- How can you catch a cricket ball without breaking your fingers?
- What is light?
- Why are black holes black?

If you study Physics, after every single lesson you will leave knowing and understanding something amazing.

Subject Specification Outline:

1. Measurements and their errors
2. Particles and radiation
3. Waves
4. Mechanics and materials
5. Electricity
6. Further mechanics & thermal physics
7. Fields and their consequences
8. Nuclear physics
9. OPTION either engineering or astrophysics

The mix of topics will allow students to cover both the breadth and depth of Physics. From the very large-scale explanations of how a galaxy orbits a supermassive black hole, to the mechanics by which the crumple zones in cars dissipate energy, to the counter intuitive quantum model of subatomic behaviour.

Even more exciting than discovering and understanding these discrete areas of physics is identifying the common links and underlying fundamental laws of physics underpinning everything.

Progress Assessment:

- Regular in-lesson micro assessment to ensure that any misconceptions or gaps in knowledge are identified
- Semi-regular short assessments per topic to allow our students regular practice at applying their learning to exam scenarios and receive individual feedback
- Less frequent, longer exam-style assessments to prepare students for the reality of final examinations

Final Exam Format:

Paper 1 – Topics 1-5 & 6.1 2hrs

Paper 2 – Topics 6.2, 7 & 8 2hrs

Paper 3 -

Section A Compulsory section linked to practical skills, topics 1-8

Section B the Option Module, 2hrs

Self Study Requirements: an hour of self study for every hour of taught lesson.

Progression Pathways: Physics is one of the most respected subjects by universities and potential employers. An A -Level in Physics would be esteemed and valued in any future pathway but would have particular relevance to; medicine, law, finance, engineering, science, journalism & broadcasting, working within the energy industry, electrical, as a lighting or sound engineer, in logistics, VFX and gaming, robotics, AI and medical physics.

Our students, beyond Stratford: our 2026 Physics students went onto study Physics, Astrophysics & Cosmology, Motorsport Engineering, Computer Science, Mathematics and International Tourism & Hospitality at the universities of Warwick, Swansea, Oxford Brookes, Portsmouth, Bournemouth and Coventry as well as apprenticeships in Marine Engineering and Civil Engineering.