

PHYSICS CURRICULUM: KS5

Intent:

In Science we aim to deliver a *knowledge rich, ambitious, and inclusive* curriculum that ensures all pupils master key concepts in the three Sciences. This *empowers* them to examine *relevant* global issues such as pollution, food sustainability, climate change *etc.* We ensure pupils develop a *coherent* understanding of scientific enquiry and gain the skills needed to draw valid conclusion via practical work. We aim to foster pupil's natural curiosity and develop them into critical thinkers where they can apply their knowledge to the modern world (e.g., understanding electricity bills, choosing a car wisely, the importance of screening).



Qualification(s)	Physics A-level
Exam Board	AQA
Link to Specification	https://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408/specification-at-a-glance

Procedural knowledge is developed throughout the curriculum whilst pupil's carry out the required practicals. These practicals are assessed within the external exams so is vital pupils attend these lessons.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	Mechanics and materials	Mechanics and materials Waves and optics	Waves and optics Electricity	Particles and radiation Electricity	Quantum Physics	End of year assessment Fields
Year 13	Fields Further mechanics	Thermal Physics Electromagnetic induction	Radioactivity Nuclear energy	Astrophysics	Revision	External exams

Further Support:

Isaac Physics is a wonderful free resource to help develop your child's mathematical reasoning skills.

<https://isaacphysics.org/>

The institute of Physics. The Institute of Physics (IOP) is the professional body and learned society for physics in the UK and Ireland, with an active role in promoting co-operation in physics around the world. We strive to make physics accessible to people from all backgrounds.

<http://www.iop.org/>

The Ogden trust. The Ogden Trust aims to increase the uptake of physics post-16 by supporting physics education and engagement for all young people (4-18), particularly those in under-represented groups. The Trust supports schools, teachers, projects, and programmes that are committed to enhancing physics teaching and learning.

[The Ogden Trust: supporting physics education & engagement](#)

Physics and maths tutor. Revision notes, key points, worksheets, and questions by topic from past papers.

www.physicsandmathstutor.com

Pupils are issued with a revision workbook at the beginning of the year. They are able to work through and keep these to support their revision.

Who to contact regarding KS5 Physics:

Mr. M. Cousins – Head of Physics

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