

Subject: Physics (OCR A)

Subject Leader: Miss N. Kaptein

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CNS 6th Form



This course covers the following key topics:

Y12 develops the foundations in Physics in which you will study forces and motion, waves, quantum and electrical circuits.

Y13 topics include particle and medical physics and their applications, thermal, circulation motion, gravitational and electric fields and electromagnetism building on your understanding from Y12

Throughout the course you will notice that there is a large emphasis on mathematical and practical skills.

We love teaching this course because

We offer exciting opportunities for our students to develop their scientific, research and presentational skills alongside the course. This includes

- 1. Prep Work** – For every lesson our students come prepared for their learning by having read the section of the textbook that we will cover. This allows class time to be used for deeper discussions and practice.
- 2. Presentations** – At the end of each unit students research a related area of their choosing, allowing for a wider understanding of the applications of Physics.
- 3. Opportunity for a Silver Crest Award** – In the third term of the course students choose any topic from the course and complete

All these combined allows our students to have an excellent grasp of the course as well as the applications of physics in the wider world.

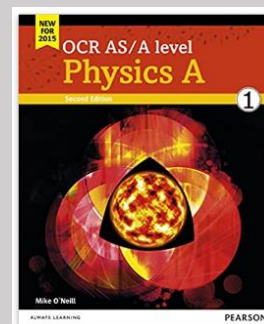
Our students say: "The course has helped to develop my research and presentational skills"

"I am now able to apply mathematical logic to explain real-life situations"

"The independent research projects allow you to develop your research skills and own interests within the subject"

Recommended

Textbooks: OCR AS/A Level Physics A by Pearson



ISBN 13 – 978-1447990826

If you love Physics, we really recommend you read:

- 1) Surely You're Joking Mr Feynman: Adventures of a Curious Character**
- 2) Moondust – In Search of the Men Who Fell to Earth**
- 3) Quantum Theory Cannot Hurt You: Understanding the Mind-Blowing Building Blocks of the Universe**



What future pathways are open to me if I study Physics?

Physics can take into many different industries – including education, automotive and aerospace industries, defence and the public sector, healthcare, energy, materials, technology, computing and IT.