

Physics

Subject Lead Mrs Glaister (Director of Science)

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Key topics covered

Core Topics (we study all of these)

1. Measurements and their errors
2. Particles and radiation
3. Waves
4. Mechanics and materials
5. Electricity
6. Further mechanics and thermal physics
7. Fields and their consequences
8. Nuclear physics

Choice of Option Topic (we choose 1)

9. Astrophysics
10. Turning points in physics
11. Medical physics
12. Electronics
13. Engineering physics

Recommended Textbook and/or resources

AQA Physics 2nd Edition, ISBN 978-0198351870
Amazon, Waterstones, Scopyay - £41.40

A-Level Physics: Essential Maths Skills, ISBN 9781782944713. Amazon £7.50

Physicsandmathstuor.com

Past paper and markschemes provision

Resources – Scientific Calculator

Super-curricular reading.

<https://www.my-mooc.com/en/categorie/Physics>

<https://isaacphysics.org/>

Why Study the Subject/what students Like about it

Physics is exciting, it is fun, it is challenging, it is rewarding, and it is crucial to understanding the world around us, the world inside us, and the world beyond us.

‘I really like applying maths to real world applications, I find myself thinking about SUVAT equations in everyday life!’.

Opportunities outside the classroom

There are many resources available to you outside of the classroom, such as full online lessons, past papers from AQA, a range of materials on the Google Classroom, and on websites such as Isaac Physics. In addition, students are also able to access online text books via Kerboodle.

Future progression/career routes

Engineering, astronomy, robotics, renewable energies, computer science, communications, space exploration, science writing, sports and games technology, research and nanotechnology.

