

Physics

What is the exam board and route?

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A Level Physics AQA (7408)

Subject Entry Requirements: Grade 7 in GCSE Physics and GCSE Mathematics advised

Subject outline

This qualification is a linear course that covers the following topics:

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and materials
- Electricity
- Further mechanics and thermal physics
- Fields and their consequences
- Nuclear physics
- We also teach the Engineering physics option.
- How is the course assessed?
- There are three papers of 90, 90 and 120 minutes.

Why study this subject?

Studying Physics opens doors to a wide range of careers. With strong analytical and problem-solving skills, Physics graduates are highly sought after in various fields. Possible career paths include engineering, data analysis, finance, education, research, and technology. Physicists are valuable in industries such as healthcare, aerospace, energy, and software development. Their ability to approach complex problems makes them well-suited for roles in scientific research, teaching, and even public policy. Ultimately, a background in Physics equips you with skills applicable across many sectors, ensuring a diverse range of employment opportunities.

Complementary subjects

STEM (Maths, Further Maths, Biology, Chemistry, DT, Computer Science)

Possible careers

A Physics degree develops exceptional analytical, problem-solving and quantitative skills, making graduates highly sought after across a wide range of careers. While many enter scientific and engineering professions, Physics graduates are also particularly successful in high-earning fields such as management consulting, investment banking, private equity, venture capital, corporate strategy and patent law. Employers value physicists for their ability to tackle complex problems, interpret data, think logically and communicate technical ideas clearly, enabling them to progress into leadership and decision-making roles across business, finance, technology and government.

Subject enrichment available

- Year 12 and Year 13 Physics Olympiad
- Year 12 Astronomy Olympiad
- Revision / booster classes
- Oxbridge preparation classes
- External lectures
- Trip to Diamond Light Source
- External Physics Competitions
- Physics society
- STEM activities