

PHYSICS

▶ **Entry requirements:**

- ▶ Grade 6,6 in Combined Science or Grade 6 Triple Sciences Physics at GCSE and a Grade 6 in GCSE Mathematics.
- ▶ To support your Physics studies, it is recommended you also study A Level Mathematics

The prospectus explains the course content.

Why study Physics?

- ▶ A level Physics gives you the opportunity to explore the phenomena of the universe and to look at theories that explain what is observed. The subject combines practical skills with theoretical ideas to develop descriptions of the physical universe. You will learn about everything from kinematics to cosmology and many recent developments in fascinating topics, such as particle physics. If you are interested in the limits of space, the beginning of time and everything in between this is the subject for you. Physics is more than a subject – it trains your brain to think beyond boundaries.

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WHAT WILL I STUDY?

Topics covered include: Particles and Quantum Phenomena, Waves and Optics, Forces, Newton's Laws of Motion, Momentum, Work, Energy and Materials, Electricity and DC Circuits, Circular Motion, Simple Harmonic Motion, Thermal Physics and Gases, Gravitational Fields, Electric Fields, Capacitors, Magnetic Fields and Electromagnetic Induction, Radioactivity and Nuclear Energy.

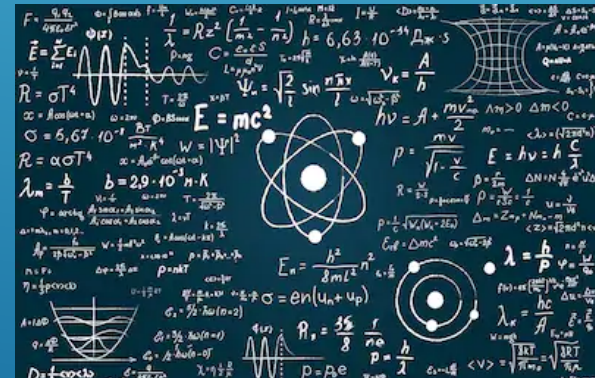
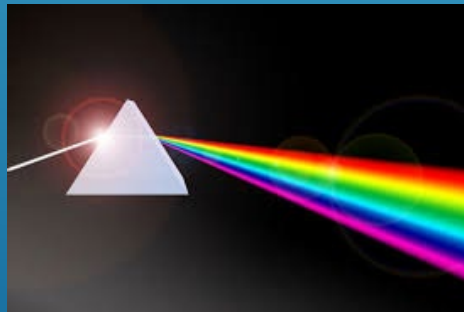
There is also an optional topic to be chosen in Year 13 which is one from: Astrophysics, Medical Physics, Engineering Physics, Turning Points in Physics and Electronics.

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CAREER OPPORTUNITIES

- ▶ Physics will help you to build up your problem solving, research, and analytical skills. With these skills you'll be able to test out new ideas plus question and investigate other people's theories, which is useful for any kind of job that involves research or debate.
- ▶ Physics is a highly respected A level. A good grade in A level Physics demonstrates to an employer that you have analytical and mathematical skills that you can apply to real life situations.
- ▶ There are many possible career paths that it will create for you, for example: Engineering, Medicine, Forensic Science, Astronomy, Cosmology, Electronics, Power generation, Finance and many more.



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