Physics

Why choose to study Physics?

- It is an exciting and challenging course which will encourage you to think 'outside of the box'.
- The course reflects modern developments in physics and its applications.

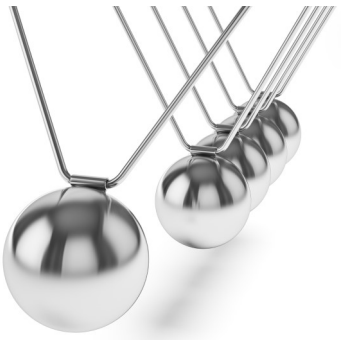
Entrance Requirements

- Success at A Level requires a very good understanding of science at GCSE Level. You should, therefore, have achieved at least one grade 6 in your GCSE sciences.
- Calculations are an important part of the course, as are graphic skills and analysis of experimental data. You should have followed the Higher Tier Maths course at GCSE to meet the mathematical demands of the course.
- You will be required to complete 12 core practicals across the two years, so good practical skills are essential.
- Good study skills and a commitment to independent learning.

Course Content & Learning Styles

- To sustain and develop an enjoyment of, and interest in, physics.
- To recognise the importance of physics in present day society.
- To think about the natural world around you and to question common perceptions.
- To investigate and develop practical skills.
- To develop communication skills.
- You will also learn about the particles (and antiparticles) which make up our Universe; waves and quantum phenomena; the physics of motion; the properties of matter; astrophysics…

What skills will I develop?



- Practical work is an important part of the course- investigative skills and powers of analysis will be developed.
- You will learn to research and organise information.

Progression Opportunities

- Physics opens many doors towards a successful career.
- Jobs for which physics provides a grounding / requirement including engineering, medicine, teaching, information technology, astronomy, medical physics.
- The skills obtained are highly valued by employers and readily transferred to other areas such as economics, business studies and law.
- "Most large companies now prefer people with a background in sciences with a strong quantitative content, to those with a qualification in finance… physics looms large among their preferences."

Did you know…

The protons in the world's largest particle accelerator have the same energy as a family car travelling at 1000 mph!