Physics (AQA)

ABOUT THE COURSE

A-level Physics allows students to appreciate how fundamental Science works and to study optional topics that particularly interest them – including Astrophysics, Medical Physics and Applied Physics.

A-level Physics builds on the concepts and skills developed in the Physics GCSE and is particularly suitable for students who have the skills and knowledge associated with a GCSE Additional Science course or equivalent.

COURSE CONTENT

- Particles
- Quantum Phenomena
- Electricity
- Mechanics of motion
- Materials Engineering
- Waves and duality
- Fields
- Further mechanics
- Nuclear Physics
- Thermal Physics
- Astrophysics
- Options:

    A – Astrophysics
    B – Medical Physics
    C – Applied Physics
    D – Turning Points in Physics

HOW WILL I BE ASSESSED?

There will be three written exams each of 1.75 hours covering the course content. Also your ability to work practically will be internally assessed over a range of 12 practical activities during the course.

Why Choose A-Level Physics?

Do you want to investigate the limits of space, the beginning of time and everything in between?

How about understanding how the technology around you works?

Want to save the planet or maybe just help people get better when they are ill?

Or maybe you don't care about any of this and just want to earn lots of money?

Whatever you do, the knowledge and skills you gain by studying physics will be useful. Physics is more than a subject – it trains your brain to think beyond boundaries.

SCARISBRICK HALL
VI
SIXTH FORM

Physics (AQA)

DESIRABLE REQUIREMENTS:

- An enjoyment and interest in the subject of Physics.
- For pupils following the Separate Science course: Physics at grade B or better.
- For pupils following the Core and Additional Science course: Core at grade B or better,
- Additional at grade B or better.
- Mathematics: GCSE at grade B or better (Higher Tier).
- A willingness to work conscientiously
- We would strongly advise that you study A level Mathematics, however this is not compulsory.

PROGRESSION OPPORTUNITIES

A level Physics can open paths to many careers and further education courses including medicine, veterinary science, dentistry, astronomy, all engineering courses and careers, seismologist, meteorologist, optometry, research careers and many more.

A level Physics will help you gain knowledge and practical skills to put you at the forefront for university courses and direct employment in many sectors.

You should study Physics if you are interested in understanding the nature of the universe and are curious to explain the things you see around you, if you enjoyed studying: Forces and energy, electricity, radioactivity and atoms, heat, light and sound waves in your GCSE course and would like to find out more. If you can think logically, if you are good at Mathematics, especially Algebra and if you wish to keep your career options open.

SCARISBRICK HALL
VI
SIXTH FORM