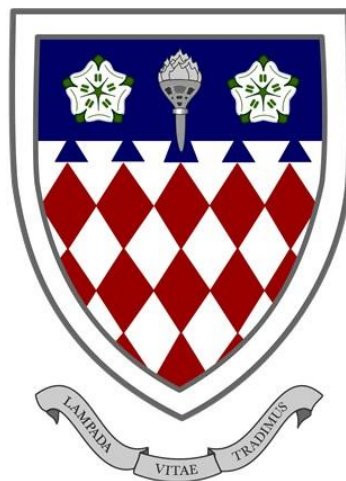


Spalding High School Sixth Form

A Level Physics



Why Choose A Level Physics

Physics has no limits; whether you are considering your life on this planet or our future beyond it.

Physics is about how everything around you works and by understanding this you can see how to take them further. Technological developments are a fast moving industry, since you were born mobile phones, laptops and the internet have become integral part of our lives but without Physics these would not have even been invented. The key ideas from GCSE will be revisited and developed, to show how they work together and to see how universal principles apply to both the smallest of atoms and the largest of galaxies.

With Physics we can save the planet, improve people's lives with better prosthetics, go to space or just upgrade the design of a vacuum cleaner. To understand how technology around you works, to expand your knowledge and think beyond your usual boundaries, are all reasons to study Physics.

What career paths might I follow with A Level Physics?

There are many directly related career paths from the varied engineering professions, astrophysics, nuclear physicist, diagnostic medical scanning to name but a few.

However the skills learnt from studying Physics: investigation, analytical, research, observation, analysis and evaluation will enable you to take on a much more diverse range of occupations.

Physics qualifications could definitely give you the edge and make you stand out from the rest of the students, helping you to get the university offer or job you are aiming for.

What is the content of the course and how is it assessed?

The course covers a wide range of topics from the more traditional: Mechanics, Electricity, Waves, Thermal Physics and Fields to the developing and exciting areas of Physics; Nuclear, Radiation, Materials and Particles, where new discoveries are being made today.

Like all Science A levels there is a practical skills endorsement. This is assessed by students completing a series of twelve core practicals, which cover a range of skills and key apparatus; this is assessed by the school.

The A level final examination is three 2 hour written papers. Papers 1 and 2 are on a range of topics and make up 60 marks each towards the A level, (short and long answer questions and 25 multiple choice questions on content). Paper 3 based on practical skills and data analysis, and is 45 marks, along with 35 marks on an optional topic (chosen by the school).

What do our students say about A Level Physics?

'Physics might be a bit scary but it's really rewarding delving into how everything in the universe really works: from huge planets to the particles inside a person.'

'Circular motion got my head spinning but harmonic motion was simple!'

'Physics is challenging but immensely rewarding. Every time I get a question right I smile.'

'I'm glad I chose to study it.'

'Getting the right answer at the end of a difficult question is always rewarding.'

'Newton's laws got the ball rolling for me and I haven't slowed down yet!'

Specification

Exam Board—AQA

[http://www.aqa.org.uk/subjects/science/as-and-a-level/
physics-7407-7408](http://www.aqa.org.uk/subjects/science/as-and-a-level/physics-7407-7408)

Entry requirements

GCSE Grade 7 in both parts of the Combined Science and
GCSE Grade 6 in Mathematics

GCSE Grade 6 in Physics and GCSE Grade 6 in Mathematics

For further details please contact

Mrs N Gregory, Head of Physics

Spalding High School, Stonegate, Spalding, PE11 2PJ

01775 722110

enquiries@spaldinghigh.lincs.sch.uk