A LEVEL PHYSICS

If you are interested in questions like “what happens if I go into a black hole?”, “what is a Higgs Boson?” and “what happens if I travel near to the speed of light?”, then A Level Physics will challenge you to consider these questions – and many more!

Level 3 · A Level (or equivalent) · Penwith College

TOP COURSE HIGHLIGHTS

GREAT LINKS TO STEM CAREERS | SMALL CLASS SIZES | EXCELLENT LECTURER SUPPORT | FANTASTIC ENRICHMENT OPPORTUNITIES

APPLIED STUDY

You will discover that the same underlying physical laws can be applied from everyday situations such as electric circuits or theme park rides to complex situations like particle accelerators or black holes!

PROGRESS

Our course delivery is highly structured to ensure you have a holistic understand of the course and its assessment from the start of your time with us. You will have a clear understanding of your progress in the subject, and regular assessments and detailed lecturer feedback to support you to further improve.

PRACTICAL LECTURES

Practical lectures will enable you to develop confidence in working experimentally, as well as increasing your knowledge and skills regarding scientific method, data analysis and the presenting of data.

WHY CHOOSE THIS COURSE?

Physics allows you to understand the fundamental structure of the universe from atoms (or smaller!) to galaxies (or bigger!) and how the matter within the universe interacts. You will discover that the same underlying physical laws can be applied from everyday situations such as electric circuits or theme park rides to complex situations like particle accelerators or black holes. Practical lectures will enable you to develop confidence in working experimentally, as well as increasing your knowledge and skills regarding scientific method, data analysis and the presenting of data. Our physics staff are a highly experienced team, who help to nurture students’ enthusiasm of the subject whilst also giving all learners the support they need to achieve.

We are also very keen to offer students to opportunity to engage in stretch and challenge activities, such as STEM competitions, and to support our students to make rewarding progression to higher education, work-based training, or employment.

WHAT WILL I LEARN?

In your first year of study you’ll begin by exploring classical (Newtonian) mechanics, allowing you to understand how objects move and interact in terms of everyday forces. You’ll then progress into explaining electric circuits in terms of current, potential difference and resistance, by considering the motion of charge carriers. You will also learn about material properties and how different materials behave when exposed to different forces before moving on to consider

classical wave theory, followed by more contemporary physics, such as using observational evidence to argue for a quantum mechanical treatment of light.

WHERE WILL IT TAKE ME?

Physics is a highly respected A Level that is valued for most degree subjects. Studying the physical sciences at university level provides you with many skills such as problem solving, communication, creativity, and teamwork; hence physical scientists are much sought after and can pursue careers in many exciting fields of work including meteorology, finance, law, and journalism. If you want to study physics, electronics or engineering you will need A Level Physics. However, an understanding of physics is desirable for a variety of university courses including mathematics, computer science, chemistry, geology, medicine, dentistry, veterinary science, environmental science. Students who want to study a degree in physics or most forms of engineering at university are expected to study A Level Mathematics as well.

ENTRY REQUIREMENTS

For all A Levels a minimum of five GCSEs at Grade 4 or above in appropriate subjects, to include English Language or Literature and/or Maths at Grade 5 or above is required. To study Physics at A Level a GCSE Physics Grade 6 or GCSE Combined Science Grades 66, GCSE English Grade 5 or a Humanities subject Grade 5, and GCSE Maths Grade 6 are required as a minimum.

IMPORTANT

Course information can change. Please use the QR code below for the current assessment arrangements, entry requirements and start dates.