A LEVEL MATHEMATICS

A Level Mathematics is a challenging and stimulating course that will encourage you to develop your mathematical skills, improve your ability to think logically and enable you to determine solutions to a wide range of problems.

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

TOP COURSE HIGHLIGHTS

GREAT LINKS TO STEM CAREERS | SMALL CLASS SIZES | ENRICHMENT OPPORTUNITIES | EXCELLENT FACILITIES | INDIVIDUAL SUPPORT

PRACTICAL KNOWLEDGE

You will learn many mathematical techniques and apply your problem-solving knowledge to a variety of practical, real-life situations.

UNIVERSITY EXAM PREPARATION

Through the STEM Academy and Maths Academy Moodle site we offer preparation for university entrance papers and scholarship papers, Advanced Extension Award (AEA), Test of Mathematics for University Admissions (TMUA) and Sixth Term Entrance Papers (STEP).

ENRICHMENT ACTIVITIES

You will have access to a wide range of competitions including the UKMT Senior Maths Challenge and the Senior Team Challenge each year. Some students progress beyond this to the Senior Kangaroo or rounds of the British Maths Olympiad.

WHY CHOOSE THIS COURSE?

If you enjoyed studying GCSE Maths, particularly the more algebraic topics, then this would be an ideal subject for you. You will need to be good at algebra before you start the course. Throughout the course you will learn many new mathematical techniques and apply them to a variety of practical situations. At this level, Mathematics is all about applying your knowledge to solve problems in real-life situations. You need to be logical so that you can follow a mathematical argument, and you need to be creative so that you can look for different ways to apply your skills to solve a problem.

Studying Mathematics will support the study of several other subjects, in particular Physics, Chemistry, Biology, Geography, Psychology, Computer Science, Economics and Business Studies.

The course provides an excellent preparation for a wide range of university courses, such as Engineering, Sciences, Medicine, Accountancy, Architecture and Computer Science. It is also considered to be a facilitating subject for many other courses. Mathematics is a versatile qualification that is well respected by employers. If you are still not convinced then you may be interested to know that Mathematics is the only A Level that has been proven to increase earnings in later life by an average of 10%.

FOR THE LATEST COURSE INFORMATION
Scan for assessment arrangements, learner support, confirmed start dates and how to apply.

WHAT WILL I LEARN?

In order that you start your Maths A Level with confidence, we are asking all new students to complete some work prior to starting the course. This can be accessed from the website. The workbook will help you to be ready for the start of the course and make sure that there are no important topics that you have forgotten or missed out on. At the start of the course you will extend some of the core ideas from GCSE Mathematics, such as quadratic equations, coordinate geometry, algebra and sequences. You will also meet material that may be new to you, such as calculus, logarithms and functions, and you will extend your work in trigonometry and vectors. You will use the core material to solve practical problems and find out about some of the background stories behind the ideas. You will extend the quantitative methods and data handling work from GCSE Mathematics. Much of this material will seem familiar, such as probability, data presentation and interpretation, although you will take the ideas further. You will also learn about statistical distributions and hypothesis testing and you will investigate a large data set to get a feel for some of the decisions that a statistician would have to make when processing and interpreting data.

WHERE WILL IT TAKE ME?

A qualification in Mathematics is highly valued by many universities and employers. Mathematics A Level will be desirable if you are thinking of going on to study courses in subjects such as Computing, Economics, Engineering, Finance, Geography, Psychology or any of the Sciences at degree level.

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. Due to the complexity of maths A Level students should have achieved a minimum of a Grade 6 at GCSE.

IMPORTANT

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

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