

MATHEMATICS

Minimum Entry Requirements

Grade 6 in GCSE Mathematics plus the requirements for Pathway 1.

Course Leader

Mr Butterworth

Exam Board

AQA

PATHWAY

1



2

3

Mathematics is a challenging and interesting A level that is sought after in higher education and the workplace. It builds on the topics met at GCSE and develops the ideas further. Mathematics helps us to describe the world around us and is particularly suited to people who enjoy problem solving, computation and logical reasoning as well as proof. A combination of pure and applied Mathematics is studied.

Course outline

A level Mathematics is assessed through three exams, all at the end of year 13. The exams are two hours long each and equally weighted. Paper 1 will assess key algebraic topics such as proof, functions, sequences and series, exponentials and logarithms, differentiation, integration as well as trigonometry and numerical methods. Paper 2 focuses on the study of mechanics, closely related to Physics, with topics such as forces,

kinematics, moments and vectors. Paper 3 is based around the study of statistics, probability, distributions and hypothesis testing.

Where will it lead to?

Mathematics is a much sought after qualification for entry into a wide variety of full time courses in Higher Education. There are also many areas of employment that see a Mathematics A Level as an important qualification and it is often a requirement for vocational courses related to these areas. Higher Education courses or careers that list A Level Mathematics as essential or highly desirable include: Computing, Finance, Economics, Medicine, Architecture, Engineering, Accountancy, Actuary, Psychology, Chemistry, Biology, Physics and Environmental Studies.



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