



EdExcel A Level Mathematics

"If I were again beginning my studies, I would follow the advice of Plato and begin with mathematics." Galileo Galilei

Subject Information

A-Level maths is a comprehensive course that builds on GCSE maths content. Problem-solving and reasoning skills are developed while extending students' existing knowledge in pure maths – such as algebra and geometry - and in applications of maths with statistics and mechanics.

Career Pathways

A-Level mathematicians can go on to do anything they want to! Popular career choices are those related to finance, engineering, science or computing. Less obvious choices include medicine, psychology, business and marketing. Maths is a facilitating subject that is favoured in university applications, regardless of the degree applied for, and results in students being easily employable.

Course Content

Area of Maths	Exams	Total Marks
Pure Maths: <ul style="list-style-type: none"> • Proof • Algebra and functions • Coordinate geometry • Sequences and Series • Trigonometry • Exponentials and Logarithms • Differentiation • Integration • Numerical Methods • Vectors 	Paper 1: 2 hours Paper 2: 2 hours	100 marks for each paper
Statistics: <ul style="list-style-type: none"> • Statistical Sampling • Data presentation and Interpretation • Probability • Statistical Distributions • Statistical Hypothesis Testing 	Paper 3: 2 hours	100 marks
Mechanics: <ul style="list-style-type: none"> • Quantities and units • Kinematics • Forces and Newtons Laws • Moments 		

Entry Requirements: Grade 6 or above in Mathematics

Complementary subjects: *Biology, Business Studies, Chemistry, Computer Science, Geography, Further maths, Physics, Psychology and more – including the Extended Project Qualification.*

Excellence in thinking: PLUS magazine offers puzzles, a podcast and articles about current affairs.

<https://plus.maths.org/content>