A Level Mathematics

A level mathematics is a versatile qualification that is well respected by employers and is a good facilitating subject for entry to higher education. Careers for people with good mathematics qualifications are well paid and there is a huge demand from science, engineering and manufacturing employers. Mathematics students are logical, analytical thinkers and through solving problems they develop resilience and are able to think creatively and strategically.

Programme of Study

Year 12		Year 13	
Unit	**Assessment Method**	**Unit**	**Assessment Method**
Quadratics, Co-ordinate geometry, Surds, Indices, Inequalities	External	Functions, modulus, algebraic fractions, partial fractions, further proof	External
Curve sketching, Binomial expansion, Polynomials	External	Sequences and series	External
Trigonometry	External	Further Trigonometry	External
Calculus and its applications	External	Further calculus and its applications Numerical methods	External
Exponentials and logarithms, Proof	External	Statics, moments, 3D vectors	External
Kinematics, forces, dynamics and motion	External	Conditional probability, normal distribution, testing correlation, further hypothesis testing	External
Sampling, probability, binomial distribution, hypothesis testing	External		

Pathways

Mathematics is a dynamic and evolving subject, with its essential role in both every day and business life. New mathematical theories are being discovered and developed every day, enabling inventions and scientific discoveries to continue to flourish. The future employment opportunities are vast with maths being a highly sought-after qualification by employers and higher education establishments. Future pathways might include medicine, engineering or dentistry.

Student Quotes

‘I’ll do algebra, I’ll do trigonometry, I’ll even do statistics but graphs is where I draw the line.’

Dan

‘Mathematics is useful 2π + 5 days of the year.’

Liam