

Further Maths

- A level
- Edexcel 9FM0
- Teachers: Mr Speller, Ms Bushell, Ms Hassan, Mr Conduct

Assessment

Three A level maths exams, taken at the end of 2-year course.
Four Further maths exams, taken at the end of 2-year course.

Aim

- Mathematical argument, language and proof
- Mathematical problem solving
- Mathematical modelling

Content

Pure: Proof, complex numbers, matrices, further algebra and functions, further calculus, further vectors, polar coordinates, hyperbolic functions, differential equations, trigonometry, coordinate geometry

Statistics: Discrete random variables and expectation, Poisson distribution, type I and II errors, continuous random variables, Chi Squared tests, Negative Binomial and geometric distributions

Mechanics: dimensional analysis, momentum and collisions, work energy and power, circular motion, centers of mass and moments

Why choose further maths?

- Studying maths at a deeper level
- Gaining two A levels in maths; maths and further maths
- The strong foundation that a deeper understanding of maths gives you for study in other areas
- Building mathematical skills that will help you in a variety of careers
- Understanding of the mathematics, both practical and theoretical, that underpin nearly all aspects of our lives
- Acute logical thinking and problem-solving abilities



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