



Further Maths

Edexcel

Year 12

Core Pure Maths 1: Complex numbers, matrices, roots of polynomials. Pure maths with plenty of algebra. Useful for Engineering and Maths degrees.

And a choice of two of the following three units:

Further Mechanics: Kinematics, forces, momentum complements the Mechanics studied at the start of the Physics course, this is all about motion and forces.

Further Statistics: Distributions

A step on from Statistics 1, this module looks at how naturally occurring phenomena can be modelled.

Decision

Assessment

Two exams of 1 hour and 40 minutes.

Year 13

Core Pure Maths 2: Rational functions, polar graphs, numerical methods. Pure Maths mainly looking at the algebra around graphs and trigonometry

And a choice of two of the following three units:

Further Mechanics: Centre of mass, energy, work and power, projectiles. Again complementing the A level Physics course, this module looks at more complex motion; a good preparation for Mechanical Engineering.

Further Statistics: Distributions

A step on from Statistics 1, this module looks at how naturally occurring phenomena can be modelled.

Decision

Assessment

Four exams of 1 hour and 30 minutes.

Teaching of Further Maths:

Please note that this course is taught jointly by the Maths Department and live online tutorials conducted in school and led by the Advanced Maths Support Programme <https://amsp.org.uk/>. Students will be expected to work independently in preparation for their lessons and tutorials and their progress will be monitored by the online tutor and their Maths teachers.

Links Well With:

Further Maths links particularly well with Physics, Chemistry and Product Design.

Progression Routes:

Engineering, Mathematics at university

Entry Requirements:

GCSE Grade 8 Maths. It is essential that students are able to work independently and prepare for their online tutorials in advance as well as submitting homework to deadline using <https://integralmaths.org/>.