



Further Mathematics

Units: 3

Awarding Board: Edexcel

Course Code: 9FM0

Unit Outline:

Further Mathematics develops (and is dependent on) the study of pure and applied mathematics begun at A Level Mathematics. It is intended for those with a particular interest in and aptitude for the subject, and is recommended for those who intend to study Mathematics at University or those with an interest in engineering, physics, computer science or natural sciences. Students are required to complete 4 modules at the end of the course. These are made up of 2 core units and 2 optional units. The optional units could be further statistics, further mechanics, further decision or further pure. The units taken will be decided at the start of the course.

Assessment:

Four exams are weighted at 25% each. Each exam is 1 hour 30 minutes long.

Further Information:

Further Pure Mathematics: An exciting part of maths introduces you to imaginary numbers, parabolic and hyperbolic equations, matrices and proof by induction. It is extremely rewarding, but not for the faint hearted. You will then go on to delve further into imaginary numbers and then straight into one of the most useful areas of mathematics: first and second order differential equations. These are used to model all sorts of processes used in physics, economics and biology. A simple example is modelling the rate at which a mug of tea cools down; this is related to the temperature difference between the tea and the room, but this will change as it cools down, making it more complicated to model than you think. Lastly, there is an introduction to a new coordinate system: polar coordinates.

'Destinations' of Former Students/Possible Career Links:

This course can lead to a variety of higher education and career opportunities including: Mathematics, Accounting, Computing, Engineering, Architecture, Medicine, Economics, Physics, Veterinary Sciences and Natural Sciences.

Further info contact: Mr D Causey