



FURTHER MATHEMATICS

Exam Board: AQA

Curriculum Leader: Dawn Crichton

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ASSESSMENT:

- Paper 1 – Core Maths
- Paper 2 – Core Maths
- Paper 3 – Choice of 2 out of 3 sections – Mechanics, Statistics and Discrete

SUBJECT SPECIFIC ENTRY CRITERIA:

5 GCSE grades 9-5, including English and Mathematics, a grade 7 in GCSE Mathematics and be studying A Level Mathematics.

KEY INFORMATION:

This new linear course, designed with the help of higher education institutions helps equip students with a strong understanding of higher level mathematics including an increased use of technology. The course involves a holistic, non-modular approach to mathematics with problem solving and modelling being central. The course is assessed at the end of year 13 and involves

3 two hour exams (all calculator). Two thirds of the course involves core maths which extends on the topics covered in the mathematics A Level including topics such as complex numbers, matrices, polar coordinates, hyperbolic functions and differential equations. The rest of the course involves the students choosing two out of the following sections:

Mechanics – Dimensional analysis, momentum and collisions, work, energy and power and circular motion.

Statistics – Discrete random variables, poisson distribution, continuous random variables, exponential distribution and inference.

Discrete – Graphs, networks, linear programming, critical path analysis, game theory, binary operations and group theory.



POSSIBLE CAREER PATHS:

- ➔ Medical career including; doctor, surgeon, veterinary surgeon and dentist.
- ➔ Educational career; primary, secondary or higher educational teaching/lecturing
- ➔ Accounting and Banking

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