

GCSE FURTHER MATHEMATICS



Examination Board: CCEA

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Overview

GCSE Further Mathematics involves studying mathematics at a level beyond GCSE Higher Tier. It can act as a stepping stone that gives you a sound basis for studying GCE Mathematics, introducing some of the mechanics and statistics topics that appear at AS/A2 level.

This course offers opportunities to build on the skills and capabilities developed through the delivery of the Key Stage 3 curriculum in Northern Ireland.

- It caters for students who require knowledge of mathematics beyond GCSE Higher Tier Mathematics and who are capable of working beyond the limits of the GCSE Mathematics specification.
- It is designed to broaden the experience of students whose mathematical ability is above average and who:
 - Will follow mathematical courses at AS/A Level
 - Will follow other courses at AS/A Level that require mathematics beyond GCSE Higher Tier; or would like to extend their knowledge of mathematics.
- Further Mathematics can also help you progress to other studies that require mathematical knowledge and skills, for example higher level science, geography, technology or business
- The scheme of assessment comprises of three written papers
- The grades available are A* – G.

Unit	Content	Assessment
1: Pure Mathematics	In this unit, students investigate algebra, trigonometry, differentiation, integration, logarithms, matrices and quadratic inequalities	External Exam 50% of Final Mark
2: Mechanics	In this unit, students explore kinematics, vectors, forces, Newton's Laws of Motion and moments	External Exam 25% of Final Mark
3: Statistics	In this unit, students investigate central tendency and dispersion, probability, the binomial and normal distributions and bivariate analysis	External Exam 25% of Final Mark

Careers

Accountant, Actuary, Astronomer, Architect, Bank Manager/Officer, Careers in Retail, Logistics, Economist, Factory Manager, Investment Analyst, Market Research Executive, Accountancy, Technician, Marketing Manager, Medical Researcher, Meteorologist, Production Manager, Shop Keeper, Statistician, Surveyor, Computer Programmer, Quantity Surveyor, Building Society Manager/Clerk, Systems Analyst, Operational Researcher, Chartered Engineer, Insurance, Teacher, Engineering, Financial Adviser