



A LEVEL Further Mathematics – Edexcel

WHAT DO I NEED TO KNOW OR BE ABLE TO DO BEFORE TAKING THIS COURSE?

You will need to be studying towards an advanced level qualification in Mathematics. Students with a high aptitude and a genuine interest in Mathematics would benefit from the challenges and diversity of the course. It is strongly recommended for students considering studying Mathematics in higher education. You need to have achieved at least a grade 7 at GCSE; and be studying Mathematics as an A Level.

WHAT WILL I LEARN ON THIS ADVANCED GCE COURSE?

Further concepts for advanced mathematics – this will account for 50% of the course and all exam boards will include the content prescribed by the DFE. This core content will include proof, complex numbers, matrices, further algebra and functions, further calculus, vectors, polar coordinates, hyperbolic functions and differential equations.

The remaining 50% of the course has optional content. This content will include topics from decision mathematics and further mechanics.

WHAT COULD I GO ON TO DO AT THE END OF MY COURSE?

Higher Education courses or careers that would benefit from greater advancement in mathematical knowledge include: economics, medicine, architecture, engineering, accountancy, teaching, psychology, environmental studies, computing, and information and communication technology

If you wanted to continue your study of mathematics after Advanced GCE you could follow a course in mathematics at degree level or even continue further as a postgraduate and get involved in mathematical research.

Contact: hburton@ashlyns.herts.sch.uk