CORE MATHEMATICS (EDEXCEL)

THE BOURNE ACADEMY SIXTH FORM

The Core Maths qualification is for students who have passed GCSE Mathematics at grade 4 or above but have decided not to study A Level mathematics. The qualification strengthens students' existing skills and focuses on applying mathematics to solve problems relevant to everyday life. The qualification is a two year course and is equivalent to an AS Level in terms of UCAS points.

What will you learn?
Core Maths builds on GCSE mathematics, with a sharper focus on problem-solving skills. You will consider and tackle mathematics in meaningful contexts, including through financial applications and statistical ideas that can support work in other subjects.

The course supports your progression from GCSE maths by:

- preparing you for the mathematics requirements of a number of higher education courses
- developing your understanding and ability to apply mathematics
- equipping you to apply for employment or higher apprenticeships in a wide range of industry sectors, professional training or university.

You will develop your understanding of:
Statistical analysis - analysing data - used in studies such as actuarial science, biology, business and economics, IT and psychology
Probability - used in areas of study such as finance, science, artificial intelligence, business, computer science and philosophy.
Linear programming - a problem-solving approach to achieve the best outcome (such as maximum profit or lowest cost) – it can be applied to a variety of contexts in business and industry.
Sequences, growth and decay - can be applied to a variety of real-life contexts and problem-solving tasks, including financial mathematics, population growth, epidemics, earthquakes and radioactive decay.

How will you be assessed?
Assessment is by exam at the end of the two years.
Paper 1 Comprehension (40%)
Paper 2 Applications (60%)
Both papers are 1 hour 40 minutes in duration

Who to talk to:
Please talk to Mrs Syreeta Stobart or email: syreeta.stobart@thebourneacademy.com

What do I need to study this course?
Minimum of grade 4 in Maths GCSE, either at higher or foundation tier.