CORE MATHS
(AQA Mathematical Studies)

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?
Mathematical Studies (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:
Analysis of data - used in studies such as actuarial science, biology, business and economics, IT and psychology

Personal Finance- Exploring areas such as bank accounts, interest rates, credit and taxation

Normal Distribution - look at things that follow a Normal Distribution, often used in industry e.g. size of things produced by machines, errors in measurements, blood pressure etc.

Probabilities and estimation - understand the statistical terms used and how it works in real life. Links to a variety of other subjects like biology, sociology, psychology.

Correlation and regression - recognise and analyse the accuracy of data. Using this to make predictions and also foresee any potential problems with predictions. Links to biology and chemistry.

How will you be assessed?
Assessment is by exam at the end of the two years. Preliminary material is provided and students will be expected to show competence in understanding and application of mathematical modelling in the solution of problems relating do decision making and planning projects.
Paper 1 (50%) 1 hour and 30 minutes. Calculators are allowed.
Paper 2 (50%) 1 hour and 30 minutes. Calculators are allowed.

Who to talk to:
Please speak 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.