



# Core Maths (Mathematical Studies)

Core maths is a new course being offered in the academic year 2024 - 2025. Studying Core Maths helps to develop strong numeracy and problem-solving skills. It keeps maths skills fresh and will help students apply the maths they need for other subjects they are studying alongside it.

## Why study Core Maths

A broad range of A level and vocational courses require the maths skills that Core Maths helps to develop, including:

Biology and Environmental Science

Business and Economics

Geography

Health and Social Care

Psychology

Sociology

Sports Science and PE

Degrees such as Biology, Geography, Psychology, and Business Studies all expect mathematical competency that can be supported by studying Core Maths. Some universities now provide alternative entry offers which reduce one of the entry grades required by students who, in addition to the course requirements, attain a grade B or above in a level 3 maths qualification.

## Core Maths Course Content

At Beaumont School we teach the AQA Level 3 Mathematics Studies course which consists of units on the following topics:

Analysis of data

Maths for personal finance

Estimation

Critical analysis of given data and models

The normal distribution

Probabilities and estimation

Correlation and regression

## Core Maths Assessment Details

The course is assessed at the end of year 12 with all content being assessed by examinations.

There are two papers, each lasting an hour and a half. Scientific or graphics calculator are allowed in all exams.

There is pre-released material which is used in the second paper.

## Essential Student Qualities

The students must be proactive in taking responsibility for their learning and asking questions. They should ensure that they manage their time and keep up with regular practice and finally they need to demonstrate perseverance and a willingness to work through challenging problems – be prepared to get things wrong. The content builds upon the GCSE syllabus and we require students to have achieved a grade 5 on the higher paper.

## Materials

Students will be required to purchase their own textbooks, details will be given at a later date, and a suitable calculator. The calculator will need to have an iterative function and the ability to compute summary statistics and access probabilities from standard statistical tables. We will provide information on an appropriate model at a later date and will be making a bulk order if you would like to purchase a calculator through the school, which usually works out cheaper.