



Subject Information Sheet



Level 3 Mathematical Studies (One Year Course)

CORE

MATHEMATICS

Core Maths aims to support students studying Biology, Chemistry, Physics, Geography and other facilitating subjects by delivering the Mathematical content required to be successful in these courses. It also provides support for those not wishing to take Mathematics A-Level but intending to undertake a degree in the Social Sciences or facilitating subjects.

The course has been designed to maintain and develop real-life mathematical skills. What students study is not purely theoretical or abstract; it can be applied on a day-to-day basis, whether in work, study or life.

Core Maths will include a financial mathematics element and can help with other A level subjects, in particular with science, geography, business studies, economics and psychology. Mathematical skills are becoming increasingly important in the workplace and in higher education - studying Core Maths will help students to keep up these essential skills.

Course Content:

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

Modules include:

- Representing Data.
- Numerical calculations.
- Cost of credit
- Taxation.
- Financial Problems.
- Sampling and the Normal Distribution.

Why Core Maths?

According to the Higher Education STEM project, many students arrive at university with unrealistic expectations of the mathematical and statistical demands of their subjects, leading to a lack of confidence and anxiety by the students.

Designed to maintain and develop real-life mathematics skills, what students study can be applied on a day-to-day basis whether in further study or employment.

Most courses will include a statistical mathematics element and can help with other A level subjects, including science, geography, business studies, economics and psychology.

The skills developed in the study of mathematics are increasingly important in the workplace and in higher education. Most students who study mathematics after GCSE improve their career choices and increase their earning potential.

Assessment:

Students sit two papers. Paper 1 is compulsory for all students. Students then sit one of three paper 2's: 2A – Statistical Techniques, 2B – Critical Path and Risk Analysis or 2C – Graphical Techniques. The 2nd paper is selected by the class teacher as the beginning of the course.

Entry Requirements:

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 equivalent to an AS Level in terms of UCAS points.

Staff Contacts:

Mr G Blackburn | Mr J Grill | Mr B Griffiths

IMPORTANT:

CORE MATHEMATICS MUST BE TAKEN AS 4TH SUBJECT AS IT IS ONLY A ONE YEAR COURSE.



Web Link Address

www.budehaven.cornwall.sch.uk/subject-areas/maths/