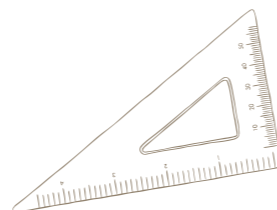




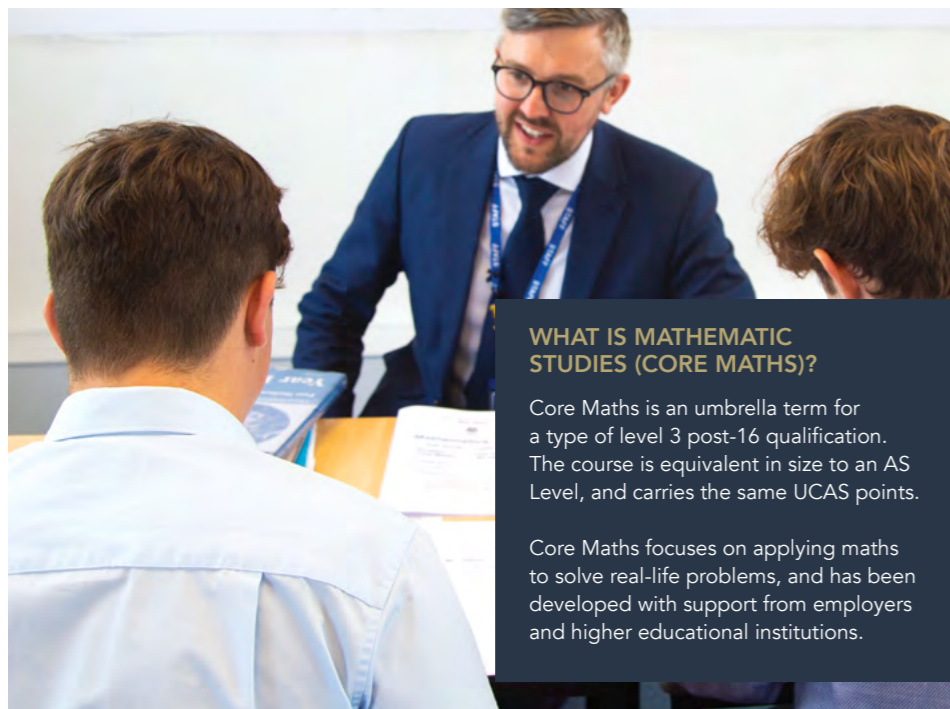
# MATHEMATICAL STUDIES (CORE MATHS)

HEAD OF DEPARTMENT: MR BUTTERWORTH

EXAMINATION BOARD: AQA  
SPECIFICATION: MATHEMATICS  
QUALIFICATION: AS-LEVEL



At Truro School we believe that Maths is for everyone. It is diverse, engaging and essential in equipping students with the right skills to reach their future destination, whatever that may be. This course focuses on using and applying maths to address authentic problems drawn from study, work and life.



### WHAT IS MATHEMATIC STUDIES (CORE MATHS)?

Core Maths is an umbrella term for a type of level 3 post-16 qualification. The course is equivalent in size to an AS Level, and carries the same UCAS points.

Core Maths focuses on applying maths to solve real-life problems, and has been developed with support from employers and higher educational institutions.



The course is designed to: consolidate and build mathematical understanding; foster the ability to think mathematically and apply maths in unfamiliar situations; support students' learning in other subjects requiring quantitative skills; prepare students for the real-life mathematical demands of further study and employment.

### COURSE DETAILS

Mathematical Studies aims to prepare students for the mathematical demands of higher education and work where there is a distinct mathematical or statistical element, but where the mathematical demands do not stretch to a requirement for A-Level mathematics.

Students are assessed through two 1 hour 30-minute exams including:

#### PAPER 1

- Analysis of Data
- Personal Finance
- Modelling and Estimation

#### PAPER 2A

- Normal Distribution
- Confidence Intervals
- Correlation and Regression
- Critical Analysis



### WHO IS CORE MATHS FOR?

Core Maths is designed to support students who achieve a grade 4 or above in GCSE Mathematics, but decide not to study AS or A-Level Mathematics.

It is aimed at students that are taking A-Level subjects which have some mathematical requirements. This includes, but is not limited to Business, PE and Sport, Geography, Design and Technology, and all the science subjects. Studying this qualification enhances students' abilities with the mathematical skills and the quantitative reasoning crucial for careers using mathematics.

Students really enjoy the 'real-life' element of the course, especially the finance section where they calculate income tax and national insurance as well as mortgages and loans; they can see the practical uses of the skills they are learning which motivates them to delve deeper into the topic areas.

The links to other subjects also helps our students as they can amalgamate the skills and methods from Core Maths into other areas of their studies - subject teachers have noted that this has helped the teaching of their own lessons as students have a stronger baseline in their mathematical understanding and are much more confident than they previously had been.