GCSE Maths – CCEA

GCSE Mathematics is a modular course. All students will have the opportunity to study Mathematics at Higher level enabling them to achieve an A or A* Grade. The end of Key Stage 3 Mathematics results determine the Mathematics group of the student for GCSE. Areas studied include number, algebra, data handling, shape, space and measure.

Assessment is divided as follows:

Modules T3 or T4	2 hr. exam (with calculator)	Worth 45%
Module T6	75 min paper for calculator / 75 Min paper for non-calculator	Worth 55%

GCSE Further Maths – CCEA

This course is intended to cater for those pupils who are capable of working beyond the limits of the GCSE Mathematics specification. It is designed to broaden the mathematical experience of pupils who:

- Have a strong mathematical ability
- Are considering mathematical courses at AS/A Levels
- Are considering courses at AS/A Level that require mathematics beyond GCSE
- Wish to extend their knowledge of mathematics.

This specification aims to encourage students to:

- develop further their mathematical knowledge, skills and understanding;
- select and apply mathematical techniques and methods in mathematical, every day and real-world situations;
- reason mathematically, interpret and communicate mathematical information, make deductions and inferences, and draw conclusions;
- extend the base in mathematics from which they can progress to:
- higher studies in mathematics; and/orstudies such as science, geography, technology or business which contain a significant requirement in mathematics beyond Higher Tier GCSE Mathematics; and
- design and develop mathematical models that allow them to use problem solving strategies and apply a broader range of mathematics to a variety of situations.

Examination Components

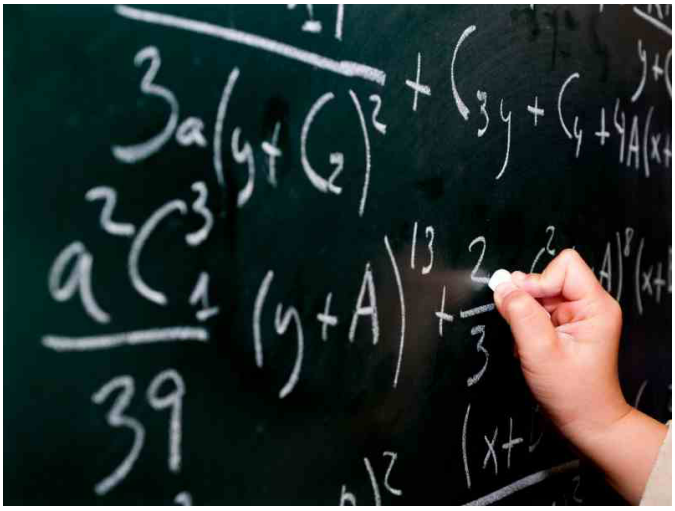
There will be two written papers each of two hours duration, one for each unit.

Unit 1 Pure Mathematics 50%

Unit 2 Mechanics 25%, Statistics 25%

Unit 1 (Pure Mathematics)
In this unit pupils investigate

- Algebra
- Trigonometry
- Differentiation
- Integration
- Logarithms
- Matrices
- Vectors



Unit 2 (Mechanics and Statistics)

In this unit pupils explore:

Mechanics

- Kinematics
- Vectors
- Forces
- Newton's laws of motion
- Friction
- Moments

Statistics

- Understanding and using statistical terminology
- Measures of central tendency
- Measures of dispersion
- Probability
- Bivariate analysis

Further Mathematics is not required in order to go on to study Mathematics at AS / A level.