

# MATHS

EXAM BOARD: EDEXCEL



## WHAT WILL I STUDY?

Students of Maths will develop an understanding of mathematics and mathematical processes, develop the ability to reason logically and construct mathematical proofs, and understand coherence and progression in mathematics. There is lots of new and exciting material for students to discover and extend their mathematical knowledge from GCSE.

### Pure Maths 1

- Proof
- Algebra and functions
- Coordinate geometry
- Sequences and series
- Trigonometry
- Exponentials and logarithms
- Differentiation
- Integration
- Vectors

### Statistics

- Statistical sampling
- Data presentation and interpretation
- Probability
- Statistical distributions
- Statistical hypothesis testing

### Pure Maths 2

- Proof
- Algebra and functions
- Coordinate geometry
- Sequences and series
- Trigonometry
- Differentiation
- Integration
- Numerical methods

### Mechanics

- Quantities/units in mechanics
- Kinematics
- Forces and Newton's laws
- Moments

## HOW WILL I BE ASSESSED?

Three exams lasting 2 hours each and out of 100. The exams will be on Pure Maths 1, Pure Maths 2, Statistics & Mechanics. All are equally weighted.

## MINIMUM GCSE REQUIREMENTS

- Maths grade 7

## POSSIBLE PROGRESSION PATHWAYS

Maths is a facilitating subject that will enable students to progress on to a variety of higher education programmes, apprenticeships or into full-time employment.

The university or employment areas include, but are not limited to:

- Maths Statistics
- Engineering
- Physics
- Economics
- Insurance
- Accountancy
- Computer Science
- Computer Games Design