

# Maths and Further Maths

Boys choose either

- Maths (10 periods a fortnight)  
OR
- Further Maths (12 periods a fortnight) - includes A level Maths so you gain 2 A levels with this option.

Three other subjects are chosen to go alongside Maths or Maths/FM.

## What is covered in A level Maths?

All content is compulsory for the A level Maths course. We follow the Edexcel 9MA0 syllabus and 9FM0 for Further Maths.

Pure Mathematics (66%) - proof, algebra, trigonometry, calculus and vectors

Statistics (17%) - statistical sampling, data representation and probability

Mechanics (17%) - modelling the motion of objects and forces acting on them

## How is Mathematics examined?

Three 2 hour exams. Two of these are pure papers - any part of the Pure material may be tested on either paper. The third paper is 50% Mechanics and 50% Statistics.

Calculators are allowed in all exams. The Casio Classwiz 991EX is recommended.

## What is Further Mathematics?

- Designed to stretch and challenge able mathematicians and prepare them for university courses in Mathematics and related quantitative and scientific subjects.
- 50% of the content is Pure Maths
- Two options from Further Mechanics 1, Further Mechanics 2, Further Statistics 1 and Further Decision Maths 1 make up the other 50%.
- Examined by 4 papers, each 90 minutes long and 75 marks.

## Essential GCSE concepts:

Algebra - especially Quadratics, linear equations, simultaneous equations and  $y = mx+c$

Indices and surds

Trigonometry

## You must also really like Maths!

If you study something you enjoy, you are likely to do better at it.

You may have Maths homework four times a week!

## Remember

You have to study Maths to be a mathematician but you don't have to be a mathematician to study Maths!