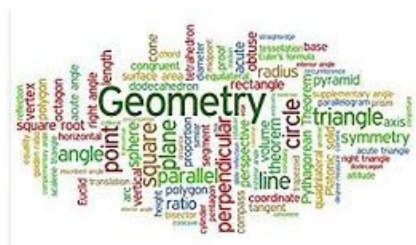# MATHEMATICS

What is it?

This is a two year course external exams sat in year 13.

Analytical, logic and problem solving skills across a range of applications in mathematics will be developed. These skills can be used effectively in life in many different contexts. An aptitude for algebraic manipulation is essential.

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REQUIREMENTS

GCSE Mathematics— Grade 7

ASSESSMENT

Pure Paper 1 – 2 hours 100 marks

Pure Paper 2 – 2 hours 100 marks

Applied Paper – 2 hours 100 marks

CONTENT

Pure Mathematics - Proof; algebra and functions; coordinate geometry in the (x,y) plane; sequences and series; trigonometry; exponentials and logarithms; differentiation; integration and vectors

Applied Mathematics - Statistical sampling; data presentation and interpretation; probability; statistical distributions; statistical hypothesis testing Quantities and units in mechanics; kinematics, forces and Newton's laws