



St Margaret Ward
Catholic Academy
Sixth Form

MATHEMATICS

A LEVEL

Proud partner of
Trinity Sixth Form



What is the level of course I will take?

A Level Mathematics with Edexcel.

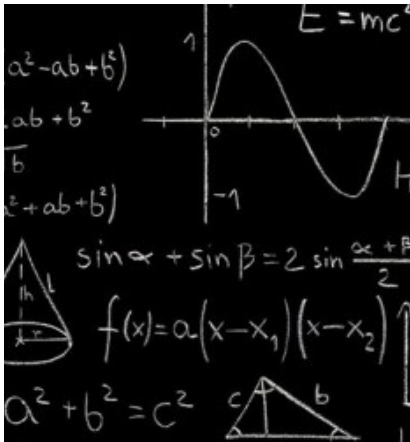
What level of GCSEs do I need to take this course?

Minimum of 5 x GCSE grade 5 including a minimum Grade 7 in Maths.

How will I be assessed?

There will be 3 exams at the end of the 2 year course.

- Paper 1 is Pure Maths and is worth 33%
- Paper 2 is Pure Maths and is worth 33%
- Paper 3 is Statistics and Mechanics and is worth 33%



MATHEMATICS

Course Content

Pure Mathematics

This extends the Algebra and Trigonometry elements from GCSE to a higher level of understanding that enables problems to be solved especially in Mechanics and Statistics. (Proof, Algebra and functions, Coordinate Geometry in the (x,y) plane, Sequences and series, Trigonometry, Exponentials and logarithms, Differentiation, Integration, Vectors, Numerical methods)

Mechanics

This enables you to describe mathematically the motion of objects and how they respond to forces acting upon them. Many of the ideas that you will meet form an essential introduction to engineering and physics. (Quantities and units in mechanics, Kinematics, Forces and Newton's laws, Moments)

Statistics

This enables you to analyse and summarise numerical data in order to arrive at meaningful conclusions. You will extend the range of probability concepts from GSCE. Many of the topics have wider applications in Biology and Geography for the recording of experiments. (Statistical sampling, Data presentation and interpretation, Probability, Statistical distributions, Hypothesis testing)

How will the course help me after Sixth Form?

A Level Mathematics is a much sought after qualification for entry into a wide variety of courses in Higher Education. The door is open to any career with A level Maths but it's a key subject for careers in Economics, Accountancy, Architecture, Engineering, Medicine, Teaching, Psychology, Environmental Studies, Computing, IT, Banking, Insurance, Financial Advice, Investments and many more. Other work places value very highly workers who are problem solvers.



For further information,
scan the below QR code

