



Why study Mathematics at Formby High School?

Whether your aim is to study Mathematics at university or for it to provide an excellent grounding for careers in science, technology, medicine, engineering, economics or banking, A Level Mathematics is a rewarding, interesting, stimulating and enjoyable course. At its core, it can be described as the application of a limited number of methods to a never ending amount of problems, patterns and structures.

Mathematics is the most popular choice at A Level and we have a reputation for excellent teaching. Our staff aim to develop and nurture logical-thinking skills, which are very much in demand, giving you a competitive edge with future employers.

What does the course involve?

Pure Mathematics Year 12: proof, algebra and functions, coordinate geometry, sequences and series, trigonometry, exponentials and logarithms, differentiation, integration and vectors.

Pure Mathematics Year 13: proof, algebra and functions, coordinate geometry, sequences and series, trigonometry, differentiation, integration and numerical methods.

Statistics and Mechanics: statistical sampling, data presentation and interpretation, probability, statistical distributions and hypothesis testing, kinematics, forces, Newtonian laws and moments.

In Year 12 and 13 you will study a variety of mathematics including pure mathematics, statistics and mechanics. The course is assessed at the end of Year 13 by three examinations, each lasting two hours. Pure Mathematics accounts for two papers with the other assessing statistics and mechanics.

What can the qualification lead to?

University/College courses in the following subjects:

- Actuarial Mathematics
- Business
- Engineering
- Finance
- Mathematics
- Science
- Statistics and Computing

Mathematics offers many transferable skills and will support most STEM subject courses and employment opportunities.

What are the entry requirements?

Grade 7 in GCSE Mathematics.

Which other subjects complement Mathematics?

- Biology
- Business Studies
- Chemistry
- Computing
- Engineering
- Music and/or Music Technology
- Physics



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I chose to study Maths because it was always one of my favourite subjects in high school – and one of my best! I wasn't sure exactly what degree I'd want to do at university, but I knew that Maths would be useful for almost any subject as it can be applied in so many different areas of study. It is probably the best subject to take if you are unsure about your future career as it is required (or at least considered) for multiple degree applications, from Medicine to Engineering to Architecture. I decided recently that I wanted to study Architecture, for which Maths is essential. I'm hoping to apply to Cambridge, therefore I'll need top grades; I know the teachers here will really support me with this and will help me achieve the best possible grades that I can.

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Grace chose to stay at Formby High for Sixth Form