

A level Further Maths



at Conyers Sixth Form

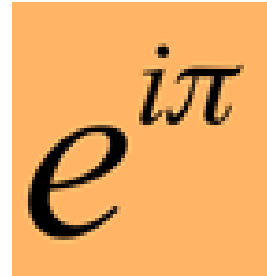
Did you know that:-

Inequalities are used in collision-detection algorithms in video games.

Your blood pressure varies periodically, based on your pulse rate, and can be modelled using trigonometric functions.

Mathematicians and engineers use Taylor Series to approximate and model solutions to complex differential equations such as those that describe the flow of air over an aircraft wing.

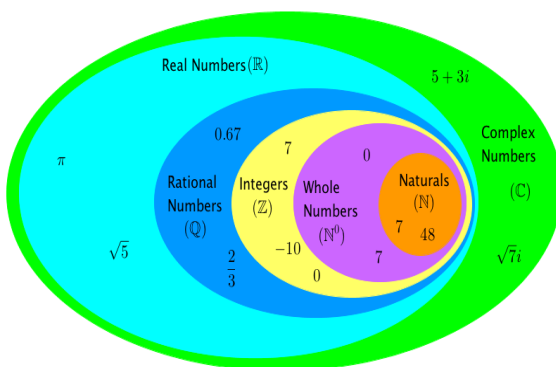
You will study these topics in Further Maths



Course content

Some of the topics covered in Further Maths are:-

Proof; complex numbers; matrices; further algebra and functions; further calculus; further vectors; polar coordinates; hyperbolic functions; differential equations



Assessments

At the end of year 13 you will take 4 papers, each 1 1/2 hours long

Opportunities and experiences in Further Maths

- Senior Maths Challenge
- Opportunity to assist in lower school classes or mentor a lower school student
- Problem solving courses at Teesside University



What can you do with A level Further Maths?

Studying A Level Further Maths can be extremely valuable if you wish to pursue a career in the following;

- Scientific research.
- Computer science.
- Mathematical and statistical modelling.
- Engineering.



Mathematics

What you need: 3 A's if one of them in Further Maths.

"I really enjoyed during complex numbers to solve equations that could not normally be solved. Expanding formulae in McClaurin series is also very interesting" - Michael

Aerospace Engineering

What you need: A in A Level Mathematics, A in A Level physics, A in one other A Level science

"At Conyers Sixth Form I've gained experience that will help me immensely in my degree and work after. My favourite part of the Maths course is mechanics, learning about the first principles behind real life motion." - Alick



Maths Exam Board: Edexcel

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