

A level Mathematics

at Conyers Sixth Form



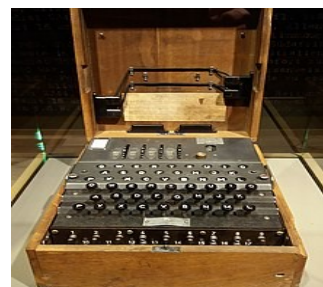
Did you know that:-

Code breakers at Bletchley Park used inverse functions to decode enemy messages,

Sequences and series can be found in nature and can be used to model population growth/decay or the spread of a virus,

Archaeologists use differential equations to estimate the age of fossilized plants and animals

The Newton-Raphson method was developed 400 years ago to describe the position of planets as they orbit the sun



Course content

Pure: includes differentiation; integration; transformation of graphs; coordinate

geometry; sequences and series; trigonometry; exponentials and logarithms

Statistics: includes familiarity with a data set; probability; sampling; data presentation and interpretation; binomial distribution; normal distribution; hypothesis testing.

Mechanics: includes Kinematics; forces and Newton's laws; moments; projectiles.



Assessments

At the end of year 13 you will take three papers, each 2 hours long. There will be 2 Pure Papers and 1 Statistics/ Mechanics Paper

Opportunities and experiences in Maths

- Senior Maths Challenge
- Senior Maths Team 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 Mathematics?

Careers include:

- Careers in finance—Actuarial Analyst/Investment Analyst/Insurance Underwriter/Accountant
- Software engineer/Game designer
- Investment Analyst
- Astronomer
- Teaching

Economics and Finance



What you need: 3 A's including Maths

“During my 2 years in Conyers sixth form I've had many opportunities to undertake activities that enhance my personal statement such as work experience and taking part in the CIPFA Management Games. My favourite aspect of Maths is problem solving and Mechanics” - James

Natural Sciences

What you need: A*AA, including 2 sciences

“Over my years at Conyers I have had the chance to gain lots of skills that will enhance my personal statement such as GCSE Further Maths, work experience and Maths Challenges. My favourite part of Maths is coordinate geometry and Mechanics” - Izzy



Maths Exam Board: Edexcel

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