

Sixth Form – A Level course Description:

Course title: Mathematics A Level

Entry Requirements: Maths GCSE at grade 6 and English GCSE at grade 5

Topics Covered:

In Year 12	In Year 13
Algebra Co-ordinate Geometry Binomial Theorem Trigonometry Vectors Exponentials and Logs Calculus	Algebra Graphs Sequences and Series Binomial Theorem Trigonometry Parametric Form Calculus Numerical Methods Vectors
Statistics Mechanics	Statistics Mechanics

Exam Board: Edexcel

Details of Examinations:

In Year 12	In Year 13
AS Exam sat by all Year 12	A Level Exam
Pure Mathematics (Year 1/AS)	Pure Mathematics (Year 2/AS)
Statistics and Mechanics (Year 1/AS)	Statistics and Mechanics (Year 2/AS)

Post-18 Progression and Pathways to universities:

Progression/Pathways:

If you hold an A Level in Mathematics many pathways are open to you. Many degree courses in subjects related to Mathematics at University require a degree in Mathematics, such as: Mathematics, Statistics, Physics, Astronomy, Engineering and Computer Science. Many others, including Medicine, Architecture and the Social Sciences, have a certain amount of mathematical or statistical content may require Mathematics and certainly will be of great assistance to you.

Career Opportunities:

Mathematics is undoubtedly one of the most important, interesting and valued disciplines to study and has wide applications in Industry, Business, Finance, Science, Technology, Education along with many others. Mathematics qualifications can help you towards a future career in these areas. There is currently a national shortage of qualified Mathematicians.

Enrichment:

In this course you will have the following opportunities:

- UK Senior Maths Challenge competition.
- External talks hosted at leading London Universities which specialise in Mathematics.

Lead Member of Staff: Dr Ali Khan

Email: alikhan.k@sta.islington.sch.uk