A-Level Mathematics

Edexcel Maths 9MA0

Birmingham Ormiston Academy
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What will I learn?

The course is designed around developing your mathematical skills of analysis, proof, algebra and number. The main elements which you will carry through from GCSE include work on Surds, Trigonometry and Quadratic Equations & Graphs. These will be extended and expanded on, and linked to real life topics such as Statistical Analysis, Physics and Kinematics

How is the course structured?

Students will study three modules across the two years. These initially build upon elements of GCSE, with the focus being to extend and re-contextualise. These areas include linear graphs, quadratic equations, trigonometry, index notation, completing the square, transformations of graphs, simultaneous equations and surds. Students are introduced to the equation of a circle, to differentiation and integration, quadratic inequalities, the discriminant, trigonometric identities, binomial distribution, sequences and series notation and the logarithmic scale.

This specification has seen significant changes from the previous and will now incorporate elements of Mechanics and Statistics throughout the three modules. This will look at areas of kinematics, forces, advanced trigonometry and applied vectors alongside probability, data handling and statistical analysis.

How will I study?

Activities will include group work, discussion, investigation and private study. It is suggested that for every lesson completed, an hour is spent reviewing the work and finishing exercises at home. Students will be assigned a teacher mentor who will provide them weekly feedback on a series of challenging homework tasks designed to maintain an ongoing revision programme.

How will I be assessed?

You will have 3 exams at the end of Year 13, each lasting 2 hours.

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