OVERVIEW

Students study topics in each of the five key strands in mathematics: Number, Algebra, Geometry, Ratio & Proportion and Statistics & Probability. Each strand builds on their prior learning from Years 7, 8, 9 and 10.

We focus on developing knowledge and skills in each of the five strands which students will then build on to solve problems and reason mathematically.

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Unit C22: Proportion Equations – linear and non-linear direct proportion equations, linear and non-linear inverse proportion equations

Unit C23: Quadratics 2 – factorising with a coefficient, solving with quadratic formula, completing the square, solving quadratics from algebraic fractions

Unit C24: Surds – simplifying, multiplying and dividing surds, adding and subtracting surds, expanding and simplifying with surds, rationalising surds

Unit C25: Representing Data 3 – box plots, cumulative frequency, histograms

Unit C26: Circle Theorems – all circle theorem rules, circle theorem proofs

Unit C27: Further Trigonometry – area of a non-right angle triangle, sine rule, cosine rule, trigonometry graphs

Unit C28: Functions – function notation, composite functions, inverse functions, functions and equations

Unit C29: Proof – equivalent statements, multiples, odd and even, consecutive numbers

Unit C30: Iteration – identifying roots, rearranging, finding a solution, recurrence relations

Unit C31: Simultaneous Equations 2 – non-linear and linear equations algebraically and graphically

Assessment:

Mock 1 takes place in Half Term 2.

Students will be informally assessed every lesson using questioning, mini whiteboards and marking of independent work.

There will be fortnightly Pre Seen assessments to prepare students for the full GCSE exams.

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Classes follow a bespoke Revision Programme based on identified areas of need to prepare them for the final GCSE assessment.

Assessment:

Mock 1 takes place in Half Term 4.

Students will be informally assessed every lesson using questioning, mini whiteboards and marking of independent work.

There will be fortnightly Pre Seen assessments to prepare students for the full GCSE exams.

Sum

Classes follow a bespoke Revision Programme based on identified areas of need to prepare them for the final GCSE assessment.

Assessment:

Students will be informally assessed every lesson using questioning, mini whiteboards and marking of independent work.

There will be an End of Topic Review at the end of each unit.

There will be fortnightly Pre Seen assessments to prepare students for the full GCSE exams.

Useful resources for supporting your child at home:

Videos on Sparx (www.sparxmaths.uk)

Videos on Corbett Maths (Videos and Worksheets – Corbettmaths)

CGP GCSE Maths Edexcel Revision Guide (link here)

REVISE Pearson Edexcel GCSE (9-1) Mathematics (link here)

Homework:

Homework will be set on Sparx (www.sparxmaths.uk).

Homework will be set once a week and students are expected to complete 100% of their homework each week. Homework is bespoke for all students depending on their performance in previous weeks.