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.

Students on Crossover will study key topics from the Higher tier specification, focusing on building reasoning and problem-solving skills alongside exam technique to increase pupil independence in preparation for their Mock exams.

Aut

Unit C21: Proportion Equations – linear and non-linear direct proportion equations, linear and non-linear inverse proportion equations

Unit C22: Quadratics 2 – factorising with a coefficient, solving with quadratic formula, completing the square, solving quadratics from algebraic fractions

Unit C23: Surds – simplifying, multiplying and dividing surds, adding and subtracting surds, expanding and simplifying with surds, rationalising surds

Unit C24 Upper and Lower Bounds – error intervals, calculations with upper and lower bounds and limits of accuracy

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

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 an fortnightly Pre Seen assessments to prepare students for the full GCSE exams.

Spr

Unit C28 Similar Solids – area and volume scale factors in similar 3D shapes

Unit C29: Functions – function notation, composite functions, inverse functions, functions and equations

Unit C30: Proof – equivalent statements, multiples, odd and even, consecutive numbers

Unit C31: Iteration – identifying roots, rearranging, finding a solution, recurrence relations

Unit C32: Simultaneous Equations 2 – non-linear and linear equations algebraically and graphically

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:

Year 11 homework will be set once a week and paper based.

In week B homework will be to complete a shadow paper in preparation for their Pre Seen exam. In week A their homework will be selected exam questions based on feedback from their Pre Seen exam.

.