Subject: Mathematics

Year 11 Higher



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Salford City Academy The best in everyone[™]

OVERVIE	Proportion and Statistics & Probability. Each strand builds on their prior learning from We focus on developing knowledge and skills in each of the five strands which stude solve problems and reason mathematically.	n Years 7, 8, 9 and 10. ents will then build on to
Aut	 Unit H25: Further Trigonometry – area of a non-right angle triangle, sine rule, cosine rule, trigonometry graphs Unit H26: Functions – function notation, composite functions, inverse functions, functions and equations Unit H27: Proof – equivalent statements, multiples, odd and even, consecutive numbers Unit H28: Iteration – identifying roots, rearranging, finding a solution, recurrence relations Unit H29: Simultaneous Equations 2 – non-linear and linear equations algebraically and graphically Unit H30: Inequalities 2 – shading inequalities, describing shaded regions, solving quadratic inequalities Unit H21: Vectors 2 – resultant vectors, midpoints, ratios, parallel vectors and proof, co-linear vectors and proof, unknown vector scalar proofs Unit H32: Graphical Transformations – translations, reflections of functions, transformations of trigonometric graphs Unit H33: Gradients and Area Under a Graph – equation of a tangent to a circle, interpreting gradients, finding acceleration, estimating distance travelled 	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 ful GCSE exams.
Spr	 Unit H34*: Congruence and Similar Shapes – congruent triangles, congruency proof, similar triangles, area scale factor, volume scale factor, mixed area and volume problems Unit H35*: Circle Theorems– all circle theorem rules, circle theorem proofs 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.
Usefu /ideos	Il resources for supporting your child at home: On Sparx (www.sparxmaths.uk) Homework will be set on Spary (www.sparx	maths uk)

Students study topics in each of the five key strands in mathematics: Number, Algebra, Geometry, Ratio &

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)

be set on Spark (<u>www.sparkmaths.uk</u>).

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.