

KEY STAGE 4 CURRICULUM INFORMATION

KEY STAGE 4 MATHS

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Examination Board	Edexcel	Specification Code	1MA1
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Year 10

	Foundation tier	Higher tier
Term 1 (Sept – Oct)	<ul style="list-style-type: none"> Algebraic straight line graphs Distance-time graphs and scatter graphs Real-life graphs Translations and reflections Enlargements and rotations 	<ul style="list-style-type: none"> Quadratic equations Simultaneous equations Inequalities Calculating probability Experimental probability Tree diagrams and Venn diagrams
Term 2 (Nov – Dec)	<ul style="list-style-type: none"> Simple proportion and best buys Ratio and proportion Proportion, graphs and inverse proportion 	<ul style="list-style-type: none"> Percentages Compound measures Ratio and proportion
Term 3 (Jan – Feb)	<ul style="list-style-type: none"> Pythagoras' Theorem Finding lengths using trigonometry Finding angles using trigonometry Calculating probabilities Experimental probability Probability diagrams Dependent events 	<ul style="list-style-type: none"> Congruence Similarity in 2D shapes Similarity in 3D shapes Accuracy and 2D problem solving Trigonometric graphs 3D problem solving
Term 4 (Mar – Apr)	<ul style="list-style-type: none"> Percentages Compound measures Distance, speed and time Direct and inverse proportion 	<ul style="list-style-type: none"> Sampling Graphs and charts Comparing data

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Term 5 (Apr – May)	<ul style="list-style-type: none"> • 3d solids • Constructions • Loci and regions • Scale drawings and bearings • Quadratic graphs • Quadratic equations 	<ul style="list-style-type: none"> • Simultaneous equations and inequalities • Graphs of quadratic functions • Graphs of cubic functions • Chords, radii and tangents • Circle theorems • Proofs and equation of tangent to a circle at a given point
Term 6 (Jun – Jul)	<ul style="list-style-type: none"> • Accuracy • Circles and sectors • Volume and surface areas 	<ul style="list-style-type: none"> • Surds • Formulae and functions • Algebraic fractions • Proof

Year 11

	Foundation tier	Higher tier
Term 1 (Sept – Oct)	<ul style="list-style-type: none"> • Reciprocals and fractions • Indices • Standard form • Similarity and enlargement • Congruence • Vectors and translations 	<ul style="list-style-type: none"> • Vector notation • Vector arithmetic • Geometrical problems
Term 2 (Nov – Dec)	<ul style="list-style-type: none"> • Graphs • Simultaneous equations • Using algebra 	<ul style="list-style-type: none"> • Proportion • Exponential and other non-linear graphs • Transformations of graphs functions
Term 3 (Jan – Feb)	<ul style="list-style-type: none"> • Bespoke medium term plan for review of class gaps 	<ul style="list-style-type: none"> • Bespoke medium term plan for review of class gaps
Term 4 (Mar – Apr)	<ul style="list-style-type: none"> • Bespoke medium term plan for review of class gaps 	<ul style="list-style-type: none"> • Bespoke medium term plan for review of class gaps
Term 5 (Apr – May)	<ul style="list-style-type: none"> • Bespoke medium term plan for review of class gaps • GCSE examinations 	<ul style="list-style-type: none"> • Bespoke medium term plan for review of class gaps • GCSE examinations
Term 6 (Jun – Jul)	<ul style="list-style-type: none"> • GCSE examinations 	<ul style="list-style-type: none"> • GCSE examinations

ASSESSMENT DETAILS

Students will complete GCSE single papers in term 1, as well as full suite GCSE examinations during the November and March mock period. Students will also receive a personalised learning checklist (PLC) shortly after each of these, which will identify remaining gaps in learning. These will be used on a class level, to plan for the

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bespoke medium term plan until the next mock period/GCSE examination, and on a personal level to address remaining gaps through online homework.

WHAT CAN I DO TO SUPPORT MY CHILD AT HOME?

- Ensure that all homework tasks are completed on Sparxmaths
- Ensure any remaining learning gaps identified in the post tests are addressed using the online resources available
- Discuss and celebrate progress made through improvement in performance of pre and post termly assessments

TEACHING STAFF CONTACT DETAILS

Name	Role	Email	Tel
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