

Mathematics



Head of Department: Ms A. Toprak

Year 7

Mathematics is a creative and highly interconnected discipline that has been developed over centuries, providing the solution to some of history's most intriguing problems. It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

	Autumn 1	Autumn 2
Focus/Context for Learning	Graphs and sequences Mensuration Calculations Proportion and percentages Equations and formulae Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Number Angles Data Transformations Calculations Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. AP1
	Spring 1	Spring 2
Focus/Context for Learning	Equations and formulae Data Number Angles Mensuration Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Proportion and percentages Transformations Graphs and sequences Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. Progress check.
	Summer 1	Summer 2
Focus/Context for Learning	Angles Probability Equations and formulae Number Graphs and sequences Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Calculations Constructions Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. AP2

Mathematics



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Year 8

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Focus/Context for Learning	Angles Probability Equations and formulae Number Graphs and sequences Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Calculations Constructions Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. AP2

Mathematics



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Year 9

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Edexcel	Autumn 1	Autumn 2
Focus/Context for Learning	Graphs and sequences Mensuration Calculations Proportion and percentages Equations and formulae Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Number Angles Data Transformations Calculations Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. AP1
	Spring 1	Spring 2
Focus/Context for Learning	Equations and formulae Data Number Angles Mensuration Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Proportion and percentages Transformations Graphs and sequences Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. Progress check.
	Summer 1	Summer 2
Focus/Context for Learning	Angles Probability Equations and formulae Number Graphs and sequences Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Calculations Constructions Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. AP2

Mathematics



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Year 10

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Edexcel	Autumn 1	Autumn 2
Focus/ Context for Learning	Graphs and sequences Mensuration Calculations Proportion and percentages Equations and formulae Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Number Angles Data Transformations Calculations Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. AP1
	Spring 1	Spring 2
Focus/ Context for Learning	Equations and formulae Data Number Angles Mensuration Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Proportion and percentages Transformations Graphs and sequences Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. Progress check.
	Summer 1	Summer 2
Focus/ Context for Learning	Angles Probability Equations and formulae Number Graphs and sequences Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.	Calculations Constructions Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. AP2



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Edexcel	Autumn 1	Autumn 2
Focus/Context for Learning	<ul style="list-style-type: none"> • Standard form, indices, surds, bounds • Simultaneous equations, quadratics, Parallel and perpendicular lines. • Transformation of graphs • Circle theorems, Vectors • Histograms, capture and recapture • Recurring decimals, percentages, triple brackets <p>Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.</p>	<ul style="list-style-type: none"> • Probability, proportion, algebraic fractions, trig graphs, functions • Reversed percentages, standard form, quadratics • Surface area, volume, frequency tables, speed • Quadratic Simultaneous equations, transforming graphs, completing the square, Quadratic sequences and inequalities, velocity time <p>Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs. Mock 2</p>
Focus/Context for Learning	<ul style="list-style-type: none"> • Iteration, Trigonometry, 3D Pythagoras, similarity, congruence, histograms • Vectors, venn diagrams • Practice papers <p>Assessment: Class test, MCQs, Sparx, retrieval practice, deliberate practice, FARs.</p>	<p>Practice papers</p> <p>Mock 3</p>
Focus/Context for Learning	<p>Paper 1: Non calculator</p>	<p>Paper 2: Calculator</p> <p>Paper 3: Calculator</p>