

Curriculum Planning - Mathematics


	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Integers: + - x / Types of numbers Introducing Algebra	Equations Fractions	Decimals Percentages	Ratio Angles	Symmetry and transformations Perimeter, area and volume	Collecting and displaying data
	<i>Pupils' confidence, resilience and knowledge. Equality and Inclusivity, Enjoyment and Creativity, Opportunities to reflect. Topic and Termly Assessments, Homeworks developing retrieval, Junior Maths Challenges.</i>					
Year 8	Integers: BIDMAS Approximation Indices	Fractions and percentages Algebra	Coordinates Linear graphs	Sequences Constructions	Perimeter, area and volume of more complex shapes	Collecting and displaying data
	<i>Pupils' confidence, resilience and knowledge. Equality and Inclusivity, Enjoyment and Creativity, Opportunities to reflect. Topic and Termly Assessments, Homeworks developing retrieval, Junior Maths Challenges, Mathematical Team Challenge.</i>					
Year 9	Ext/Exc Estimation, Indices, Standard form, Eme/Dev/Sec Calculations, Rounding, HCF LCM	Ext/Exc Equations, Sequences, Quadratics Eme/Dev/Sec Indices, Simplifying expressions	Ext/Exc Scatter graphs, Averages, Fractions, Ratio Eme/Dev/Sec Graphs, Fractions	Ext/Exc Percentages, Angles, Perimeter, Area Eme/Dev/Sec Percentages, Equations, Sequences	Higher: Graphs, Surds, Pythagoras & Trigonometry Foundation: Angles, Averages	Higher: Circles, Transformations, Constructions Foundation: Area, Volume
	<i>Pupils' confidence, resilience and knowledge. Equality and Inclusivity, Enjoyment and Creativity, Opportunities to reflect. Topic and Termly Assessments, Homeworks developing retrieval, Intermediate Maths Challenges.</i>					
Year 10	Higher: Equations, Inequalities, Probability Foundation: Linear graphs	Higher: Venn diagrams, Compound measures Foundation: Transformations, Ratio, Proportion	Higher: Similarity & congruence, Trigonometry Foundation: Trigonometry	Higher: Sine & Cosine rule, Cumulative frequency, Box plots, Histograms Foundation: Probability, Compound measures	Higher: Graphs, Circle theorems Foundation: Constructions, Loci, Bearings, Quadratics	Higher: Circle theorem proofs, Algebraic fractions Foundation: Circles, Sectors, Spheres
	<i>Pupils' confidence, resilience and knowledge. Equality and Inclusivity, Enjoyment and Creativity, Opportunities to reflect. Topic and Termly Assessments, Homeworks developing retrieval, Junior Maths Challenges.</i>					

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Year 11	Higher: Vectors Foundation: Fractions, Indices, Standard form, Congruence	Higher: Proportion, Graphs Foundation: Similarity, Vectors, Graphs	Preparation for GCSE exam	Preparation for GCSE exam	Preparation for GCSE exam	Preparation for GCSE exam, Sixth Form taster sessions
	<i>Pupils' confidence, resilience and knowledge. Equality and Inclusivity, Enjoyment and Creativity, Opportunities to reflect. Topic and Termly Assessments, Homeworks developing retrieval, Intermediate Maths Challenge, Past Paper Club, GCSE Further Maths, High Ability Project, Bletchley Park trip, PiXL Strive for Five Conference, Sixth Form taster sessions. Readiness for the next phase of education, training or employment.</i>					
Year 12	Maths: Algebra, Graphs, Coordinate Geometry Further Maths: Complex N ^o s, Series, Polynomials	Maths: Algebraic Methods, Calculus Further Maths: Matrices, Induction Vectors	Maths: Trigonometry, Vectors, Exponentials Further Maths: Models, Acceleration Integration, Vectors, Conics, Momentum, Work-Energy-Power	Maths: Data, Correlation, Forces Further Maths: Inequalities, t-formulae, numerical methods, Elastic Collisions	Maths: Probability, Algebraic Methods, Binomials Further Maths: Trigonometry Further Calculus	Maths: Algebra, Functions, Sequences Further Maths: Complex N ^o s, Series, Methods of Calculus
	<i>Pupils' confidence, resilience and knowledge. Equality and Inclusivity, Enjoyment and Creativity, Opportunities to reflect. Topic and Termly Assessments, Homeworks developing technique, skills and retrieval, Senior Maths Challenge, Extra catch-up sessions. Readiness for the next phase of education, training or employment.</i>					
Year 13	Maths: Binomials, Angles, Trigonometry Further Maths: Integration, Polar Coordinates	Maths: More Trigonometry, Parametric equations, Further Maths: Hyperbolic Functions, Differential Eqns	Maths: Calculus, Vectors Further Maths: Conics, Taylor Series, Strings & Springs,	Maths: Year 2 Stats/Mechs Further Maths: Methods in Calculus, Reducible diff eqns, Elastic Collisions	Maths: Exam Preparation Further Maths: Exam Preparation	Maths: Exam Preparation Further Maths: Exam Preparation
	<i>Pupils' confidence, resilience and knowledge. Equality and Inclusivity, Enjoyment and Creativity, Opportunities to reflect. Topic and Termly Assessments, Homeworks developing technique, skills and retrieval, Senior Maths Challenge, Extra catch-up sessions. Readiness for the next phase of education, training or employment.</i>					

 KS3

 KS4

 KS5