

Topic Overview – Mathematics 2023-2024

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 7	Place Value Properties of Number	Arithmetic Procedures with Integers and Decimals Estimation and Rounding	Expressions and Equations	Averages from a List Arithmetic Procedures with Fractions	Understanding Multiplicative Relationships: Fractions and Ratio	Perimeter and Area Plotting Coordinates
YEAR 8	Plotting Coordinates Solving Linear Equations Transformations	Understanding Multiplicative Relationships: Percentages and Proportionality	Sequences Graphical Representations of Linear Relationships	Standard Form Statistical Representations, Measures and Analysis	Constructions and Nets Perimeter, Area and Volume	Angle Reasoning Basic Probability
YEAR 9	Straight Line Graphs Forming and Solving Equations Testing Conjectures	Three Dimensional Shapes Constructions and Congruency	Numbers Using Percentages Maths and Money	Deduction Rotation and Translation Pythagoras' Theorem	Enlargement and Similarity Solving Ratio and Proportion Problems Rates	Probability Algebraic Representation



	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 10 HIGHER TIER	FDP Equivalence Application of Percentages Statistics and Sampling Averages and Range Transformations (Rotations and Translations)	Transformations (Reflections, Enlargements and Combinations) Applications of Ratio Proportion Perimeter and Area – Regular Shapes and Compound	3D Forms and Volume Circles, Cylinders, Cones and Spheres Independent Probability Dependent Probability	Sequences Tables Charts and Graphs Pie Charts	Plans and Elevations Constructions, Loci and Bearings Pythagoras Theorem and Trigonometry in Right-Angled Triangles	Scatter Graphs and Correlation Inequalities Multiplicative Reasoning
YEAR 10 FOUNDATION TIER	FDP Equivalence Application of Percentages Statistics and Sampling Averages and Range	Transformations (Rotations and Translations) Transformations (Reflections, Enlargements and Combinations) Applications of Ratio	Proportion Perimeter and Area – Regular Shapes and Compound 3D Forms and Volume	Circles, Cylinders, Cones and Spheres Independent Probability Dependent Probability	Sequences Tables Charts and Graphs	Pie Charts Plans and Elevations

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 11 HIGHER TIER	Pythagoras' Theorem Trigonometry in right- angled triangles Quadratic, cubic and other graphs Constructions, loci and bearings Solving quadratic and simultaneous equations Inequalities	Multiplicative reasoning Similarity and congruence in 2D and 3D Graphs of trigonometric functions Further trigonometry	Cumulative frequency, box plots and histograms Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics Circle theorems Circle geometry Changing the subject, algebraic fractions, rationalising surds, proof	Vectors and geometric proof Reciprocal and exponential graphs; Gradient and area under graphs Direct and inverse proportion	Revision and consolidation	GCSE examinations

YEAR 11 FOUNDATION TIER	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	Scatter graphs	Multiplicative reasoning	Similarity and congruence in 2D	Revision and consolidation	Revision and consolidation	GCSE Examinations
	Inequalities					
	Real-life graphs Pythagoras' Theorem and trigonometry in right- angled triangles.	Constructions, loci and bearings Quadratic equations: graphs	Vectors Rearranging equations, graphs of cubic and reciprocal functions Simultaneous equations			