	Year	Autumn 1	Autumn 2
Key Stage 3	**7**	Place Value; Powers, Roots, Negative Numbers, Order of Operations; Simplifying; Expanding Single Brackets; Substitution; Calculating with Decimals	Rounding and Estimation; Maths Week; Factors, Multiples and Primes; Constructing Triangles; Percentages
	8	Negative Numbers; Substitution; Indices; Expanding Brackets; Factorisation; Angles in Parallel Lines; Standard Form	Circles; Maths Week; Solving Equations; Scales and Maps; Bearings
	9	Prime Factors, HCF, LCM; Indices, including negative indices; Simplifying using Index Laws; Introduction to Surds; Using and Rearranging Formulae; Frequency Trees and Two Way Tables	Factorise and Solve Quadratic Equations; Pythagoras' Theorem; Compound Units; Column Vectors
Key Stage 4	**10F**	Rounding, Estimation and Error Intervals; Perimeter, Area and Volume; Algebraic Manipulation: Simplifying, Expanding and Factorising, Substitution; Standard Form	Properties of Shape, Angle Facts and Angles in Parallel Lines; Indices; Sequences; Ordering Fractions, Decimals and Percentages
	10H	Rounding, Estimation and Bounds; Volume and Surface Area; Algebraic Manipulation: Expanding and factorising, simplifying algebraic fractions, Substitution, Introducing function notation	Angles: Polygons, Parallel Lines and Circle Theorems 1; Indices; Sequences; Recurring Decimals
	11F	Probability; Ratio; Angles in Polygons; Forming Expressions and Equations; Bearings and Scale	Linear Inequalities; GCSE Ready Week 1; Mock Exams; Interpreting Data; Arcs and Sectors
	11H	Probability; Further Trigonometry; Ratio; Histograms; Cumulative Frequency and Box Plots	Circle Theorems 2; GCSE Ready Week 1; Mock Exams; Cubic, Exponential, Reciprocal and Trigonometric Graphs and Graph Transformations; Circle Geometry

		Spring 1					Spring 2				
Key Stage 3	**7**	Solving Equations	Properties of Shape	Basic Angle Facts	Ratio and Proportion	Probability	Careers Week: Wedding Planner	Averages and Range		Fractions	Metric Units
	8	Ratio	Volume	Percentages	Enlargement	Plans and Elevations	Mixed Numbers	Careers Week: Landscape Gardener	Gradient	Inequalities	Terminating and Recurring Decimals	Sequences
	9	Cumulative Frequency and Box Plots	Linear Graphs		Surface Area		Careers Week: Data Analyst	Angles in Polygons	Reverse Percentages	Solving Equations involving Fractions	Bisectors and Loci
Key Stage 4	**10F**	Quadratic Equations and Graphs	Percentage Change		Changing the Subject		Careers Week: Set Designer	Linear Graphs and Inequalities		Compound Measures	Work Experience
	10H	Quadratic Equations and Graphs	Surds		Changing the Subject and Inverse Functions	Algebraic Proportion	Careers Week: Set Designer	Linear Graphs and Inequalities		Compound Measures and Capture-Recapture	Work Experience
	11F	Surface Area and Volume	Right Angled Triangles		Cubic and Reciprocal Graphs	Mock Exams	Mock Exams / Careers Week	Proportion	Real Life Graphs	Constructions and Loci	Revision
	11H	Vectors and Geometric Proof	Iteration	Real Life Graphs including Gradient of and Area under a Curve	Quadratic Inequalities	Mock Exams	Mock Exams / Careers Week	Algebraic Fractions	Algebraic Proof	Congruence	Constructions and Loci	Revision

		Summer 1			Summer 2			
Key Stage 3	**7**	Area and Perimeter	Volume and Surface Area of Cuboids	Coordinates	FDP Conversion and Ordering	Reflection, Rotation and Translation		Presenting Data: Comparative Bar Charts, Pictograms, Pie Charts
	8	Linear and Quadratic Graphs	Averages from Grouped Frequency Tables	Presentation of Data: Stem and Leaf Diagrams	Presentation of Data: Scatter Graphs, Frequency Polygons, Pie Charts	Probability of Multiple Events		Real Life Graphs
	9	Standard Form	Congruence, Similarity and Trigonometry		Arcs and Sectors | My Money Week	Venn Diagrams	Tree Diagrams	Non-Linear Graphs
Key Stage 4	**10F**	Right Angled Triangles: Pythagoras' Theorem and Trigonometry	Solving Linear and Simultaneous Equations		Similarity | Percentages	Mock Exams	My Money Week: Profit, Loss, Compound Interest, Growth and Decay	Transformations
	10H	Right Angled Triangles: Pythagoras' Theorem and Trigonometry in 2D and 3D	Solving Linear and Quadratic Simulataneous Equations		Similarity | Composite Functions	Mock Exams	My Money Week: Percentages, Compound Interest, Growth and Decay	Transformations
	11F	GCSE Ready Week 2	Revision and Exams		Revision and Exams			
	11H	GCSE Ready Week 2	Revision and Exams		Revision and Exams			