



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	 Number Factors, multiple and primes Powers and roots Fractions, decimals and percentages: equivalence and ordering Negative numbers in context Place value and rounding 	Number • Four operations: fluency and problem solving • Order of operations Probability • Probability scale • Theoretical probability Shape, Space and Measure • Geometric notation • Properties of 2D and 3D shapes	 Number Ratio: writing, comparing and simplifying Proportional reasoning: scale factors Algebra Notation Simplifying expressions Shape, Space and Measure Angles in lines/at a point* Angles in triangles* *including reasoning 	Number • Calculating with fractions • Percentage of an amount Algebra • Solving equations Shape, Space and Measure • Units of measure	 Shape, Space and Measure Area of triangles and parallelograms Volume of a cuboid Statistics Types of data Charts and Graphs Averages Algebra Types of sequences 	 Algebra Identify and plot straight lines graphs Shape, Space and Measure Transformations: simple reflection, rotation and translation
8	 Number HCF/LCM, prime factors Powers and roots, index laws FDP equivalence and ordering (incl. >1) Rounding and estimation Negative numbers (four operations) 	Number • Calculating with decimals Algebra • Simplifying expressions • Expanding brackets • Solving equations • Rearranging formulae Shape, Space and Measure • Properties of 2D and 3D shapes • Constructing triangles	 Shape, Space and Measure Angles in triangles and quadrilaterals (reasoning/multi-step) Number Ratio: comparing and sharing into a ratio Proportional reasoning: ratio/proportion comparisons, enlargement and scale factors 	 Number Calculating with fractions and mixed numbers Percentages (change, multipliers) Shape, Space and Measure Unit conversions Area of compound shapes and trapezia Surface area Volume of right prisms 	 Algebra Linear sequences Equations of straight lines Shape, Space and Measure Transformations: reflection, rotation and translation 	 Probability Listing outcomes/sample space Experimental probability Statistics Averages from frequency tables Pie charts Scatter Graphs
9	 Number Prime factors Index laws Standard Form: converting to and from Estimation Shape, Space and Measure Scale drawing and enlargement Plans and elevations Bearings 	 Number FDP – recurring decimals Calculating with fractions and mixed numbers Algebra Simplifying expressions Expanding single brackets and factorising Rearranging formulae Number Ratio: comparisons and mixing Proportional reasoning: compound measures (speed) 	 Algebra Linear Sequences Solving equations Shape, Space and Measure Area of trapezia Area/Circumference of circles 	 Shape, Space and Measure Surface area Volume of right prisms Volume of cylinders Pythagoras' theorem; introduction Algebra Equations of straight lines: introduction to y=mx+c and sketching Plotting quadratic and cubic graphs 	 Number Percentages: multipliers, profit/loss, percentage change, simple interest Statistics Pie charts Scatter Graphs Mean from grouped frequency tables 	 Shape, Space and Measure Properties of 2D shapes Angles in parallel lines Angles in polygons Pythagoras' theorem Probability Relative frequency Probability trees Venn diagrams

	Number	Algebra	Algebra	Algebra	Algebra	Statistics
10	 Standard Form: calculations Index laws; negative and fractional Bounds and error intervals Shape, Space and Measure Constructions Loci Plans and elevations Algebra Rearranging fomulae 	 Expanding single brackets and simplifying Expand double brackets Factorise quadratic expressions Sequences; Fibonacci, quadratic, geometric Number Direct and inverse proportion Best buys Compound measures Percentages; reverse percentages, multipliers 	 Inequalities; number lines, solving, solution sets Shape, Space and Measure Area/Circumference of circles; exact values Sector area and arc length Surface area and volume of cylinders Pythagoras' theorem; problem solving Transformations 	 y=mx+c Equations of parallel lines Equation of line through a point/two points Plotting non-linear graphs Shape, Space and Measure Angles problems and reasoning Similarity and congruence in 2D shapes Similar triangles 	 Set up and solve equations Simultaneous equations; graphical, simple algebraic solving Probability Venn diagrams and set notation Tree diagrams; independent and dependent events 	 Stem and leaf diagrams Averages from frequency tables Comparing distributions
11	 Shape, Space and Measure Pythagoras' theorem Trigonometry in right angled triangles Number Standard Form: all calculations Index laws: combination Algebra Simultaneous equations; solve all, set up and solve Solving quadratic equations by factorising 	 Shape, Space and Measure Transformations; enlargement Number Direct and inverse proportion Percentages; repeated percentage change Shape, Space and Measure Sectors, including exact values Volume of cylinders and spheres Vectors 	Revision and Exam Preparation	Revision and Exam Preparation	Revision and Exam Preparation	Revision and Exam Preparation