

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Number <ul style="list-style-type: none"> Factors, multiple and primes Powers and roots Fractions, decimals and percentages: equivalence and ordering Negative numbers in context Place value and rounding 	Number <ul style="list-style-type: none"> Four operations: fluency and problem solving Order of operations Probability <ul style="list-style-type: none"> Probability scale Theoretical probability Shape, Space and Measure <ul style="list-style-type: none"> Geometric notation Properties of 2D and 3D shapes 	Number <ul style="list-style-type: none"> Ratio: writing, comparing and simplifying Proportional reasoning: scale factors Algebra <ul style="list-style-type: none"> Notation Simplifying expressions Shape, Space and Measure <ul style="list-style-type: none"> Angles in lines/at a point* Angles in triangles* <i>*including reasoning</i> 	Number <ul style="list-style-type: none"> Calculating with fractions Percentage of an amount Algebra <ul style="list-style-type: none"> Solving equations Shape, Space and Measure <ul style="list-style-type: none"> Units of measure 	Shape, Space and Measure <ul style="list-style-type: none"> Area of triangles and parallelograms Volume of a cuboid Statistics <ul style="list-style-type: none"> Types of data Charts and Graphs Averages Algebra <ul style="list-style-type: none"> Types of sequences 	Algebra <ul style="list-style-type: none"> Identify and plot straight lines graphs Shape, Space and Measure <ul style="list-style-type: none"> Transformations: simple reflection, rotation and translation
8	Number <ul style="list-style-type: none"> HCF/LCM, prime factors Powers and roots, index laws FDP equivalence and ordering (incl. >1) Rounding and estimation Negative numbers (four operations) 	Number <ul style="list-style-type: none"> Calculating with decimals Algebra <ul style="list-style-type: none"> Simplifying expressions Expanding brackets Solving equations Rearranging formulae Shape, Space and Measure <ul style="list-style-type: none"> Properties of 2D and 3D shapes Constructing triangles 	Shape, Space and Measure <ul style="list-style-type: none"> Angles in triangles and quadrilaterals (reasoning/multi-step) Number <ul style="list-style-type: none"> Ratio: comparing and sharing into a ratio Proportional reasoning: ratio/proportion comparisons, enlargement and scale factors 	Number <ul style="list-style-type: none"> Calculating with fractions and mixed numbers Percentages (change, multipliers) Shape, Space and Measure <ul style="list-style-type: none"> Unit conversions Area of compound shapes and trapezia Surface area Volume of right prisms 	Algebra <ul style="list-style-type: none"> Linear sequences Equations of straight lines Shape, Space and Measure <ul style="list-style-type: none"> Transformations: reflection, rotation and translation 	Probability <ul style="list-style-type: none"> Listing outcomes/sample space Experimental probability Statistics <ul style="list-style-type: none"> Averages from frequency tables Pie charts Scatter Graphs
9	Number <ul style="list-style-type: none"> Prime factors Index laws Standard Form: converting to and from Estimation Shape, Space and Measure <ul style="list-style-type: none"> Scale drawing and enlargement Plans and elevations Bearings 	Number <ul style="list-style-type: none"> FDP – recurring decimals Calculating with fractions and mixed numbers Algebra <ul style="list-style-type: none"> Simplifying expressions Expanding single brackets and factorising Rearranging formulae Number <ul style="list-style-type: none"> Ratio: comparisons and mixing Proportional reasoning: compound measures (speed) 	Algebra <ul style="list-style-type: none"> Linear Sequences Solving equations Shape, Space and Measure <ul style="list-style-type: none"> Area of trapezia Area/Circumference of circles 	Shape, Space and Measure <ul style="list-style-type: none"> Surface area Volume of right prisms Volume of cylinders Pythagoras' theorem; introduction Algebra <ul style="list-style-type: none"> Equations of straight lines: introduction to $y=mx+c$ and sketching Plotting quadratic and cubic graphs 	Number <ul style="list-style-type: none"> Percentages: multipliers, profit/loss, percentage change, simple interest Statistics <ul style="list-style-type: none"> Pie charts Scatter Graphs Mean from grouped frequency tables 	Shape, Space and Measure <ul style="list-style-type: none"> Angles in parallel lines Angles in polygons Probability <ul style="list-style-type: none"> Relative frequency Probability trees Venn diagrams

10	<p>Number</p> <ul style="list-style-type: none"> Standard Form: calculations Index laws; negative and fractional Bounds and error intervals <p>Shape, Space and Measure</p> <ul style="list-style-type: none"> Constructions Loci Plans and elevations <p>Algebra</p> <ul style="list-style-type: none"> Rearranging fomulae 	<p>Algebra</p> <ul style="list-style-type: none"> Expanding single brackets and simplifying Expand double brackets Factorise quadratic expressions Sequences; Fibonacci, quadratic, geometric <p>Number</p> <ul style="list-style-type: none"> Direct and inverse proportion Best buys Compound measures Percentages; reverse percentages, multipliers 	<p>Algebra</p> <ul style="list-style-type: none"> Inequalities; number lines, solving, solution sets <p>Shape, Space and Measure</p> <ul style="list-style-type: none"> Area/Circumference of circles; exact values Sector area and arc length Surface area and cvlume of cylinders Pythagoras' theorem; problem solving Transformations 	<p>Algebra</p> <ul style="list-style-type: none"> $y=mx+c$ Equations of parallel lines Equation of line through a point/two points Plotting non-linear graphs <p>Shape, Space and Measure</p> <ul style="list-style-type: none"> Angles problems and reasoning Similarity and congruence in 2D shapes Similar triangles 	<p>Algebra</p> <ul style="list-style-type: none"> Set up and solve equations Simultaneous equations; graphical, simple algebraic solving <p>Probability</p> <ul style="list-style-type: none"> Venn diagrams and set notation Tree diagrams; independent and dependent events 	<p>Statistics</p> <ul style="list-style-type: none"> Stem and leaf diagrams Averages from frequency tables Comparing distributions
Year 11 are completing a previous scheme of learning						
11	<p>Algebra</p> <ul style="list-style-type: none"> Quadratic graphs Expanding double brackets and factorising Solving quadratic equations <p>Shape, Space and Measure</p> <ul style="list-style-type: none"> Area and circumference of circles and sectors Volume of cylinders and spheres 	<p>Number</p> <ul style="list-style-type: none"> Fractions and mixed numbers Indices Standard form 	<p>Shape, Space and Measure</p> <ul style="list-style-type: none"> Congruence and similarity in 2D Vectors <p>Algebra</p> <ul style="list-style-type: none"> Cubic and reciprocal graphs Simultaneous equations 	Revision and Exam Preparation	Revision and Exam Preparation	Revision and Exam Preparation