

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Number <ul style="list-style-type: none"> HCF/LCM, prime factors Powers and roots, index laws FDP equivalence and ordering Rounding Calculating with decimals Negative numbers in context 	Probability <ul style="list-style-type: none"> Theoretical and experimental probability Outcomes/sample space Shape, Space and Measure <ul style="list-style-type: none"> Geometric Notation Properties of 2D/3D shapes Constructing triangles 	Number <ul style="list-style-type: none"> Ratio: comparing and sharing into a ratio Proportional reasoning: ratio/proportion comparisons, scale factors Algebra <ul style="list-style-type: none"> Simplifying expressions Expanding brackets Substitution Shape, Space and Measure <ul style="list-style-type: none"> Angles in triangles and quadrilaterals 	Number <ul style="list-style-type: none"> Calculating with fractions and mixed numbers Percentages (increase/decrease, multipliers) 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 compound shapes and trapezia Volume and surface area of cuboids Statistics <ul style="list-style-type: none"> Charts and graphs Pie charts Averages Algebra <ul style="list-style-type: none"> Sequences 	Algebra <ul style="list-style-type: none"> Equations of straight lines: plotting and identifying Shape, Space and Measure <ul style="list-style-type: none"> Transformations: reflection, rotation and translation
8	Number <ul style="list-style-type: none"> Prime factors Index laws Standard Form: converting to and from FDP – recurring decimals Rounding and estimation Calculating with negative numbers Order of operations 	Algebra <ul style="list-style-type: none"> Simplifying expressions Expanding single brackets and factorising Substitution Solving equations Rearranging formulae Shape, Space and Measure <ul style="list-style-type: none"> Scale drawing and enlargement Plans and elevations Bearings 	Shape, Space and Measure <ul style="list-style-type: none"> Angles in parallel lines Angles in polygons Number <ul style="list-style-type: none"> Ratio: comparisons and mixing Proportional reasoning: simple compound measures 	Number <ul style="list-style-type: none"> Calculating with fractions and mixed numbers Percentages (multipliers, profit/loss) Shape, Space and Measure <ul style="list-style-type: none"> Area/Circumference of circles Surface area Volume of right prisms 	Algebra <ul style="list-style-type: none"> Sequences Equations of straight lines: introduction to $y=mx+c$ and sketching Shape, Space and Measure <ul style="list-style-type: none"> Transformations: reflection, rotation, translation and enlargement 	Probability <ul style="list-style-type: none"> Relative frequency Probability trees Statistics <ul style="list-style-type: none"> Pie charts Scatter Graphs Averages from frequency tables
9	Number <ul style="list-style-type: none"> Indices Standard Form: calculations FDP – recurring decimals Rounding, error intervals and estimation Shape, Space and Measure <ul style="list-style-type: none"> Plans and elevations Construction and loci 	Number <ul style="list-style-type: none"> Calculating with mixed numbers Percentages (repeated change, reverse) Algebra <ul style="list-style-type: none"> Expand and simplify Expanding double brackets and factorising Number <ul style="list-style-type: none"> Ratio: complex problems Proportional reasoning: direct/inverse proportion compound measures 	Algebra <ul style="list-style-type: none"> Sequences: quadratic Solving equations Inequalities Shape, Space and Measure <ul style="list-style-type: none"> Area/Circumference of circles and sectors 	Shape, Space and Measure <ul style="list-style-type: none"> Surface area and volume of cylinders Pythagoras' theorem Trigonometry in right angle triangles Algebra <ul style="list-style-type: none"> Equations of straight lines: $y=mx+c$ 	Algebra <ul style="list-style-type: none"> Non-linear graphs Simultaneous equations - introduction Statistics <ul style="list-style-type: none"> Frequency polygons Stem and leaf Averages from grouped frequency tables 	Shape, Space and Measure <ul style="list-style-type: none"> Angles in parallel lines Angles in polygons Congruence and similarity Probability <ul style="list-style-type: none"> Tree diagrams Independent and dependent events

10	<p>Number</p> <ul style="list-style-type: none"> • Simplifying surds • Indices; fractional, negative, combined • Upper and lower bound calculations <p>Algebra</p> <ul style="list-style-type: none"> • Factorising quadratics • Expanding three brackets • Algebraic fractions; simplifying, four operations • Rearranging complex formulae 	<p>Algebra</p> <ul style="list-style-type: none"> • Trigonometric graphs • Quadratic equations; solving from graphs, by factorising, using formula • Roots of quadratic graphs • Sequences; quadratic, geometric <p>SSM</p> <ul style="list-style-type: none"> • Trigonometry in right angle triangles • Exact trigonometric values • Pythagoras and trigonometry in 3D shapes • Transformations; enlargement and combination 	<p>SSM/Algebra</p> <ul style="list-style-type: none"> • Inverse proportion graphs • Complex compound measures • Proportion equations <p>Shape, Space and Measure</p> <ul style="list-style-type: none"> • Surface area and volume of cones and spheres • Frustums • Similar area and volume <p>Algebra</p> <ul style="list-style-type: none"> • Simultaneous equations • Iteration 	<p>SSM:</p> <ul style="list-style-type: none"> • Circle theorems <p>Number</p> <ul style="list-style-type: none"> • Recurring decimals to fractions • Reverse compound interest/depreciation • Growth and decay <p>Probability</p> <ul style="list-style-type: none"> • Venn diagrams • Set notations • Independent and dependent events • Conditional probability 	<p>Algebra</p> <ul style="list-style-type: none"> • Equation of line through two points • Equations of parallel and perpendicular lines • Equation of a tangent to a circle <p>Statistics</p> <ul style="list-style-type: none"> • Capture/Recapture • Sampling • Cumulative frequency and box plots 	<p>Algebra</p> <ul style="list-style-type: none"> • Graphing inequalities • Solution sets <p>SSM</p> <ul style="list-style-type: none"> • Graphs of exponential functions • Area under a curve • Gradients of non-linear graphs
11	<p>Algebra</p> <ul style="list-style-type: none"> • Trigonometric graphs • Non-right angled trigonometry • Solve trigonometric equations • Graph transformations • Functions <p>Number</p> <ul style="list-style-type: none"> • Surds; rationalising 	<p>Algebra</p> <ul style="list-style-type: none"> • Completing the square • Quadratic equations; completing the square • Quadratic inequalities • Iteration • Direct and inverse proportion equations 	<p>Statistics</p> <ul style="list-style-type: none"> • Histograms <p>Shape, Space and Measure</p> <ul style="list-style-type: none"> • Vectors and geometric proofs <p>Revision and Exam Preparation</p>	<p>Revision and Exam Preparation</p>	<p>Revision and Exam Preparation</p>	<p>Revision and Exam Preparation</p>