

	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 	Number <ul style="list-style-type: none"> 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"> Graphing inequalities Solution sets <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"> Equation of line through two points Equations of parallel and perpendicular lines Equation of a tangent to a circle <p>SSM</p> <ul style="list-style-type: none"> Graphs of exponential functions Area under a curve Gradients of non-linear graphs
Year 11 are completing a previous scheme of learning						
11	<p>Statistics</p> <ul style="list-style-type: none"> Cumulative frequency and box plots Histograms <p>Algebra</p> <ul style="list-style-type: none"> Expanding multiple brackets Graphical inequalities Iteration 	<p>Shape, Space and Measure</p> <ul style="list-style-type: none"> Circle Theorems Circle geometry <p>Algebra</p> <ul style="list-style-type: none"> Algebraic fractions <p>Algebraic proof</p>	<p>Shape, Space and Measure</p> <ul style="list-style-type: none"> Vectors and geometric proofs <p>Algebra</p> <ul style="list-style-type: none"> Graph transformations Gradient and area under a curve Direct and inverse proportion 	Revision and Exam Preparation	Revision and Exam Preparation	Revision and Exam Preparation