



Subject 5 Year Plan: Mathematics

	Year 7	Year 8	Year 9	Year 10	Year 11
Interleaving Key Subject Concepts:	<p>Autumn Term:</p> <p>Algebraic Thinking Key Themes:</p> <ul style="list-style-type: none"> Sequences Understand and use algebraic notation Equality & Equivalence <p>Place Value and Proportion Key Themes:</p> <ul style="list-style-type: none"> Place value and ordering integers and decimals Fractions, decimal and percentage equivalence 	<p>Autumn Term:</p> <p>Proportional Reasoning Key Themes:</p> <ul style="list-style-type: none"> Ratio and scale Multiplicative change Multiplying and dividing fractions <p>Representations Key Themes:</p> <ul style="list-style-type: none"> Working in the Cartesian plane Representing data Tables & Probability 	<p>Autumn Term:</p> <p>Reasoning with Algebra Key Themes:</p> <ul style="list-style-type: none"> Straight line graphs Forming and solving equations Testing conjectures <p>Constructing in 2 and 3 Dimensions Key Themes:</p> <ul style="list-style-type: none"> Three-dimensional shapes Constructions and congruency 	<p>Autumn Term:</p> <p>Similarity Key Themes:</p> <ul style="list-style-type: none"> Congruence, similarity and enlargement Trigonometry <p>Developing Algebra Key Themes:</p> <ul style="list-style-type: none"> Representing solutions of equations and inequalities Simultaneous equations 	<p>Autumn Term:</p> <p>Graphs Key Themes:</p> <ul style="list-style-type: none"> Gradients & lines Non-linear graphs Using graphs <p>Algebra Key Themes:</p> <ul style="list-style-type: none"> Expanding & Factorising Changing the subject Functions
	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>
	<p>Spring Term:</p> <p>Applications of Number Key Themes:</p> <ul style="list-style-type: none"> Solving problems with addition & subtraction 	<p>Spring Term:</p> <p>Algebraic techniques Key Themes:</p> <ul style="list-style-type: none"> Brackets, equations and inequalities Sequences 	<p>Spring Term:</p> <p>Reasoning with Number Key Themes:</p> <ul style="list-style-type: none"> Numbers Using percentages Maths and money 	<p>Spring Term:</p> <p>Geometry Key Themes:</p> <ul style="list-style-type: none"> Angles & bearings Working with circles Vectors 	<p>Spring Term:</p> <p>Reasoning Key Themes:</p> <ul style="list-style-type: none"> Multiplicative Geometric Algebraic



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<ul style="list-style-type: none"> Solving problems with multiplication and division Fractions & percentages of amounts <p>Directed Number Key Themes:</p> <ul style="list-style-type: none"> Four operations with directed number <p>Fractional Thinking Key Themes:</p> <ul style="list-style-type: none"> Addition and subtraction of fractions 	<ul style="list-style-type: none"> Indices <p>Developing Number Key Themes:</p> <ul style="list-style-type: none"> Fractions and percentages Standard index form Number Sense 	<p>Reasoning with Geometry Key Themes:</p> <ul style="list-style-type: none"> Deduction Rotation and Translation Pythagoras' Theorem 	<p>Proportions and Proportional Change Key Themes:</p> <ul style="list-style-type: none"> Ratios and fractions Percentages and Interest Probability 	<p>Revision and Communication Key Themes:</p> <ul style="list-style-type: none"> Transforming & Constructing Listening & describing Show that...
<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>
<p>Summer Term:</p> <p>Lines and Angles Key Themes:</p> <ul style="list-style-type: none"> Constructing, measuring and using geometric notation Developing geometric reasoning 	<p>Summer Term:</p> <p>Developing Geometry Key Themes:</p> <ul style="list-style-type: none"> Angles in parallel lines and polygons Area of trapezia and circles Line symmetry and reflection 	<p>Summer Term:</p> <p>Reasoning with Proportion Key Themes:</p> <ul style="list-style-type: none"> Enlargement and similarity Solving ratio and proportion problems Rates 	<p>Summer Term:</p> <p>Delving into data Key Themes:</p> <ul style="list-style-type: none"> Collecting, representing and interpreting data <p>Using Number Key Themes:</p>	<p>Summer Term:</p> <ul style="list-style-type: none"> Revision Examinations



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	<p>Reasoning with Number Key Themes:</p> <ul style="list-style-type: none">• Developing number sense• Sets and probability• Prime numbers and proof	<p>Reasoning with Data Key Themes:</p> <ul style="list-style-type: none">• The data handling cycle• Measures of location	<p>Representation and Revision Key Themes:</p> <ul style="list-style-type: none">• Probability• Algebraic representation• Revision	<ul style="list-style-type: none">• Non-calculator methods• Types of number and sequences• Indices and Roots	
	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: End of unit tests End of term test</p>	<p>Assessment: Examinations</p>