

Mathematics -Learning Plans

Key Stage	Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS3	7	Unit 1 - Sequences Unit 2 - Understand and use notation Unit 3 - Equality and Equivalence	Unit 1 - Place Value Unit 2 - FDP Equivalence	Unit 1 - Solving problems with addition and subtraction Unit 2 - Solving problems with multiplication and division	Unit 1 - Fractions and percentages of amounts Unit 2 - Operations and equations with directed number Unit 3 - Addition and subtraction of fractions	Unit 1 - Constructing, measuring and using geometric notation Unit 2 - Developing geometric reasoning	Unit 1 - Developing number sense - (N resources focus on objectives for area of 2D shapes) Unit 2 - Sets and Probability Unit 3 - Prime numbers and proof
	8	Unit 1 - Ratio & scale Unit 2 - Multiplicative change Unit 3 - Working in the Cartesian plane	Unit 1 - Constructing, measuring and using geometric notation Unit 2 - Representing data Unit 3 - Sets and Probability Unit 4 - Tables & Probability	Unit 1 - Brackets, equations & inequalities Unit 2 - Sequences Unit 3 - Indices	Unit 1 - Fractions & percentages Unit 2 - Standard index form Unit 3 - Number sense	Unit 1 - Area of trapezia & circles Unit 2 - Line symmetry & reflection Unit 3 - Constructions	Unit 1 - The data handling cycle Unit 2 - Measures of location
	After each half term, students will have a short assessment.						
KS4	9	<u>Foundation:</u> Unit 1 -Number inc standard Form Unit 2 - Algebra inc inequalities <u>Higher</u> Unit 1 - Number inc surds Unit 2 - Algebra	<u>Foundation:</u> U2 - Algebra inc inequalities U3-Graphs, tables and charts inc averages <u>Higher:</u> U2 - Algebra	<u>Foundation:</u> U4 - Fractions and percentages inc ratio Compound Measures (required in the year 9 national curriculum) U6 -Angles inc pythagoras(pythagoras is required in the year 9 national	<u>Foundation</u> U6 - Angles inc Pythagoras <u>Higher</u> U5 -Angles and Trig U7 - Area and Volume All students will be completing an	<u>Foundation</u> U8 - Perimeter and Area Revision for the end of year exams <u>Higher:</u> Unit 7 Area and Volume U10 Probability	<u>Foundation</u> Exams and exam feedback U15 Construction, loci and bearings (as required in the year 9 national curriculum) <u>Higher</u>

			<p>U3 - Interpreting Data</p> <p>All students will be completing at investigation on climate change and using statistics based on a Christmas theme.</p>	<p>curriculum even though not in U6 foundation)</p> <p><u>Higher</u> U4 - Fractions, ratio and percentages Compound Measures (required in the year 9 national curriculum) U5 Angles and Trig</p>	<p>investigation on The Easter Budget Game at the end of term,</p>	<p>Revision for the end of year exams</p>	<p>Exams and exam feedback U8 Transformations and constructions (as required in the year 9 national curriculum)</p> <p>All students will be completing an investigation and some numeracy and literacy activities at the end of term</p>
	10	<p><u>Foundation:</u> U9 - Graphs U13 -Probability</p> <p><u>Higher</u> U6 - Graphs U10-Probability</p>	<p><u>Foundation:</u> U13 - Probability U5 - Equations, inequalities, sequences</p> <p><u>Higher</u> U10-Probability U9-Equations and inequalities</p> <p>Both foundation and higher sets will be carrying out an investigation at the end of the Autumn Term</p>	<p><u>Foundation</u> U11 - Ratio and Proportion U14 -Multiplicative Reasoning</p> <p><u>Higher</u> U11 Multiplicative Reasoning U12 - Similarity and Congruence</p>	<p><u>Foundation</u> U14-Multiplicative Reasoning U12 - Pythag(recap from year 9) and trig</p> <p><u>Higher</u> U12 - Similarity and Congruence U13 - More Trig</p> <p>Both foundation and higher sets will be carrying out an investigation at the end of the Spring Term</p>	<p><u>Foundation</u> U12 - Pythagoras and trig U7 Averages and Range Revision for the end of year exams</p> <p><u>Higher</u> U13 - More Trig U14 - Further stats</p>	<p><u>Foundation</u> Revision for end of year exams, exams and exam feedback U16 -Quadratic equations and graphs</p> <p><u>Higher</u> Revision for end of year exams and exams U15 - Equations and graphs</p>
	11	<p><u>Foundation</u> U7- Averages and Range U15-Construction,loci and bearings. Revision for mocks</p>	<p><u>Foundation</u> Mock exams U15 - Construction, Loci and Bearings U17-Perimeter, Area and Volume 2</p>	<p><u>Foundation</u> U17-Perimeter, Area and Volume 2 U18 Fractions, Indices and Standard form</p>	<p><u>Foundation</u> U19 - Proportion and graphs Revision for second set of mocks Weekly tests Revision</p>	<p><u>Foundation and Higher</u></p> <p>All students will be sitting weekly tests and revision in</p>	

		<u>Higher</u> U16- Circle Theorems U17 - More algebra Revision for mocks	<u>Higher</u> Mock exams U17-More algebra U18 Vectors and geometric proofs	U19&U20 depending upon the ability of students <u>Higher</u> U18 - Vectors and geometric proofs U19 - Proportion and graphs	<u>Higher</u> U19 -Proportion and Graphs Revision for second set of mocks Weekly tests Revision	lessons in preparation for the exams.	
	After each unit, students will be sitting a unit test						
KS5	12	<u>A-Level</u> Pure AS Chapters 1-4 Applied AS Chapters 1-3 <u>Further Maths</u> Pure AS Chapters 1-13 Pure A2 Chapter 1	<u>A-Level</u> Pure AS Chapters 5-8 Applied AS Chapters 4,8,9,5 <u>Further Maths</u> Pure AS Chapters 14 Pure A2 Chapter 2 -6 Applied AS Chapters 1-5, 8-11	<u>A-Level</u> Pure AS Chapters 9-11 Applied AS Chapters 6,10 <u>Further Maths</u> Pure A2 Chapter 7 - 9 Applied AS Chapters 6,7, Applied A2 Chapters 1,4,5,7	<u>A-Level</u> Pure AS Chapters 12-14 Applied AS Chapters 11 <u>Further Maths</u> Pure A2 Chapters 10 - 12 Applied A2 Chapters 2,3,7,8	<u>A-Level</u> Revision <u>Further Maths</u> Revision	<u>A-Level</u> Pure A2 Chapters 1,3,4,5 Applied A2 Chapters 1, 2 <u>Further Maths</u> CP1 Chaps 1-9 FS1 chaps 1,2
	13	<u>A-Level</u> Pure A2 Chapters 2,6,7 Applied A2 Chapters 4, 5 <u>Further Maths</u> CP2 Chaps 1,2,4 FM1 Chaps 1,2 FS1 chaps 3,4	<u>A-Level</u> Pure A2 Chapters 7, 8, 9 Applied A2 Chapters 3,6 <u>Further Maths</u> CP2 Chaps 3,5,7,8 FM1 Chaps 3, 4 FS1 chaps 5,6	<u>A-Level</u> Pure A2 Chapters 11 Applied A2 Chapters 7 <u>Further Maths</u> CP2 Chaps 6 FM1 Chaps 5 FS1 chaps 7, 8	<u>A-Level</u> Pure A2 Chapters 1(proof), 10,12 Applied A2 Chapters 8 <u>Further Maths</u> Revision	<u>A-Level</u> Revision <u>Further Maths</u> Revision	<u>A-Level</u> Revision <u>Further Maths</u> Revision

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