

LONG TERM PLAN 2122																																								
Vision and Intent: Maths "It is better to solve one problem 5 different ways, than to solve 5 problems the same way" George Polya																																								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	Week 40
Year 7	Number - Place Value	Number - FDP equivalence	Number - Addition and Subtraction	Number - Multiplication and Division	Number - Fractions and %	Algebra - Sequences	CONTINUED Algebra - Sequences	Algebra - Equations and Inequalities	Algebra - Equality and Equivalence	Number - Directed Number	Number - Subtraction of Fractions	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	Geometry and Measures - Constructions, measurement and using geometric notation	
	<p>Pupils will know:</p> <ul style="list-style-type: none"> place value how to find equivalent fractions/decimals and percentages how to add and subtract numbers Pupils will be able to: apply knowledge to solve problems. 																																							
Year 8	Algebra - Understanding and use notation	Algebra - Equality & Equivalence	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale	Ratio and scale
	<p>Pupils will know:</p> <ul style="list-style-type: none"> understand and use algebraic notation algebra equality and equivalence ratio and scale Pupils will be able to: apply knowledge to solve problems. 																																							
Year 9	Number - Developing Number Sense	Geometry and Measures - Area of trapezia and circles	Statistics - Representing Data	Statistics - Data Handling Cycle	Statistics - Measures of location	Ratio and Proportion - Ratio and Scale	Ratio and Proportion - Multiplicative change	Algebra - Straight Line Graphs	Algebra - Forming and Solving Equations	Algebra - Testing Conjecture	CONTINUED Algebra - Testing Conjecture	Geometry and Measures - 3D shapes	Geometry and Measures - Congruency	Number - Numbers	Number - using Percentages	Number - Maths and Money	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	Geometry and Measures - Similarity and Enlargement	
	<p>Pupils will know:</p> <ul style="list-style-type: none"> develop number sense including error intervals how to find the area of trapezia and circles how to represent data Pupils will be able to: apply knowledge to solve problems. 																																							
Year 10	Ratio and Proportion	Ratio and Proportion - Rates	Probability	Geometry and Measures - Congruence, Similarity and Enlargement	Geometry and Measures - Trigonometry	Algebra - Equations and Inequalities	Geometry and Measures - Angles and Bearings	Geometry and Measures - Working with Circles	Geometry and Measures - Vectors	Ratio and Proportion - Ratio and Fractions	Ratio and Proportion - Percentages and Interest	Probability 2	Statistics - Collecting, representing and interpreting data	Number - Non-calculator methods	Algebra - Types of Number Sequences	Number - Indices and Roots	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	Algebra - Manipulating Expressions and Simultaneous Equations	
	<p>Pupils will know:</p> <ul style="list-style-type: none"> how to solve ratio and proportion problems how to solve problems involving rates probability Pupils will be able to: apply knowledge to solve problems. 																																							
Year 11	Number - Non-calculator methods	Probability - Probability	Algebra - types of number sequences	Number - Indices and roots	Statistics - Representing Data	Algebra - using trial exam diagnostic to address areas of development	Ratio and Proportion - using trial exam diagnostic to address areas of development	Geometry and Measures - using trial exam diagnostic to address areas of development	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Higher)	Revision of calculator topics (Higher)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)	Number - using trial exam diagnostic to address areas of development	Revision of non-calculator topics (Foundation)	Revision of calculator topics (Foundation)		
	<p>Pupils will know:</p> <ul style="list-style-type: none"> how to apply non-calculator methods how to calculate simple probability types of number sequences Pupils will be able to: apply knowledge to solve problems. 																																							
Year 12	Pure C1 - Algebra	Pure C2 - Quadratics	Pure C3 - Equations and Inequalities	Pure C4 - Graphs and Transformations	Pure C5 - straight line graphs	Pure C6 - Circles	Pure C7 - Vectors	Pure C8 - Trigonometric Ratios	Pure C9 - Trigonometric Ratios	Pure C10 - Trig identities and equations	Pure C11 - Exponential Modelling	Pure C12 - Differentiation	Pure C13 - Integration	Pure C14 - Exponential Modelling	Pure C15 - Integration	Pure C16 - Integration	Pure C17 - Integration	Pure C18 - Integration	Pure C19 - Integration	Pure C20 - Integration	Pure C21 - Integration	Pure C22 - Integration	Pure C23 - Integration	Pure C24 - Integration	Pure C25 - Integration	Pure C26 - Integration	Pure C27 - Integration	Pure C28 - Integration	Pure C29 - Integration	Pure C30 - Integration	Pure C31 - Integration	Pure C32 - Integration	Pure C33 - Integration	Pure C34 - Integration	Pure C35 - Integration	Pure C36 - Integration	Pure C37 - Integration	Pure C38 - Integration	Pure C39 - Integration	Pure C40 - Integration
	<p>Pupils will know:</p> <ul style="list-style-type: none"> manipulate algebraic expressions and work with surds how to sketch cubic, quartic and reciprocal graphs how to transform graphs of unfamiliar functions how to interpret straight line graphs Pupils will be able to: apply knowledge to solve problems. 																																							
Year 13	Pure C1 - Algebra	Pure C2 - Quadratics	Pure C3 - Equations and Inequalities	Pure C4 - Graphs and Transformations	Pure C5 - straight line graphs	Pure C6 - Circles	Pure C7 - Vectors	Pure C8 - Trigonometric Ratios	Pure C9 - Trigonometric Ratios	Pure C10 - Trig identities and equations	Pure C11 - Exponential Modelling	Pure C12 - Differentiation	Pure C13 - Integration	Pure C14 - Exponential Modelling	Pure C15 - Integration	Pure C16 - Integration	Pure C17 - Integration	Pure C18 - Integration	Pure C19 - Integration	Pure C20 - Integration	Pure C21 - Integration	Pure C22 - Integration	Pure C23 - Integration	Pure C24 - Integration	Pure C25 - Integration	Pure C26 - Integration	Pure C27 - Integration	Pure C28 - Integration	Pure C29 - Integration	Pure C30 - Integration	Pure C31 - Integration	Pure C32 - Integration	Pure C33 - Integration	Pure C34 - Integration	Pure C35 - Integration	Pure C36 - Integration	Pure C37 - Integration	Pure C38 - Integration	Pure C39 - Integration	Pure C40 - Integration
	<p>Pupils will know:</p> <ul style="list-style-type: none"> manipulate algebraic expressions and work with surds how to sketch cubic, quartic and reciprocal graphs how to transform graphs of unfamiliar functions how to interpret straight line graphs Pupils will be able to: apply knowledge to solve problems. 																																							