Nailsea School Curriculum Map – Mathematics

		Topic Title	Key Skills	Content
Year 7	Term 1	UNIT 1 Place value, Adding and Subtracting	Applying skills of place value, adding and subtracting to a variety of different topic areas.	 Adding and subtracting Place value Ordering Perimeter Median Range
	Term 2	UNIT 2 Multiplication and division	Applying skills of multiplying and dividing to a variety of different topic areas.	 Multiples and factors Multiplication Division Area Mean
	Term 3	UNIT 3 Negative numbers, functions, and graphs	Ability to draw on and combine different skills and areas of knowledge.	 Negative numbers Function machines Substitution Linear graphs Gradient
	Term 4	UNIT4 Fractions	Applying knowledge of equivalence to solve problems involving fractions.	 Lowest common multiples Equivalent fractions Comparing and ordering fractions Adding and subtracting fractions Mixed fractions
	Term 5	UNIT 5 Angles	Discovering and applying the links between lines, 2D shapes and angles.	 Drawing, measuring and classifying angles Intersecting lines Parallel lines Triangles Quadrilaterals
	Term 6	Each Unit of work takes	longer than 1 term and therefore stud	dies will also include Term 6.
		Topic Title	Key Skills	Content
Year 8	Term 1	UNIT 6 Surface area and volume	Ability to build on current knowledge and apply to new topic areas.	 Area Properties of 3D shapes Surface area Volume
	Term 2	UNIT 7 Number	Ability to draw on and combine different skills and areas of knowledge.	 Indices Prime numbers, Order of operation, Rounding decimals Using a calculator Pythagoras' Theorem
	Term 3	UNIT 8 Algebraic expressions and equations	Ability to draw on and combine different skills and areas of knowledge.	 Writing expressions Collecting like terms Multiplying terms Brackets Solving equations
	Term 4	UNIT 9 Proportional reasoning	Applying knowledge of proportion to solve problems.	 Conversion between fractions, decimals and percentages. Percentages Multiplying and dividing fractions Ratio

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			•	Proportion	
Term 5	UNIT 10 Probability	Ability to develop knowledge within a topic.	•	Probability scale Calculating probabilities Listing outcomes Sample space diagrams Probability of multiple events	
Term 6	Each Unit of work takes	ach Unit of work takes longer than 1 term and therefore studies will also include Term 6.			

	Key skills		Content (FOUNDATION)	Key skills	Content (HIGHER)	
Year 9	Term 1	Ability to combine number skills to access standard form.	 Number, factors and multiples Indices Decimals Standard Form 	Ability to combine number skills to access standard form. Revising algebra and fraction skills to access solving harder linear equations and inequalities	 Number, factors and multiples Indices Decimals Standard Form Algebra manipulation Fractions 	
	Term 2	Building on angles knowledge. Revisiting fractions to apply knowledge in pie charts.	 Properties of polygons Angles and polygons Scale drawing and bearings Fractions Review and revision 	Transferring the ability to set up and solve equations into an angle problem.	 Linear equations Inequalities Angles and bearings Review and revision 	
	Term 3	Recapping of substitution to access sequences and linear graphs topics.	 Pie charts Substitution Sequences Coordinates and linear graphs 	Combining substitution and rearranging skills to apply within sequences and graph work	 Construction and Loci Substitution Rearranging formulae Sequences 	
	Term 4	Revisiting algebra skills to be able to extend knowledge into solving equations and inequalities.	 Scatter graphs Algebra manipulation Review and revision 	Using knowledge of linear graphs to access inequality regions topic.	 Linear graphs Inequality regions Scatter graphs Review and revision 	
	Term 5	Linking topics requiring similar methods e.g. equations and inequalities. Recap and extension of key number topic i.e. percentages.	EquationsInequalitiesPercentages	Working on topics that require similar concepts and applying to real life situations.	 Ratio Proportion Real life graphs 	
	Term 6	Developing practical and spatial concepts.	 Revision and examinations Construction and loci 	Revisiting area topic prior to further shape and space work in Year 10 and developing spatial concepts.	 Perimeter and area Revision and examinations Circles 	