Thomas More Catholic Academy
FAITH | EXCELLENCE | RESPECT

Higher/Delta Mathematics Curriculum Sequence

Big idea / subject / theme.	KS2	Year 7			Year 8			Year 9			Year 10			Year 11			Year 12			Year 13		
		Term 1	Term 2	Term 3	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3	Term 1	Term 2	Term 3
Number	Integer Calculations Squares and Roots Division Facts	Index Notation and Square/Cube Numbers Multiples, Factors and Primes Calculating with Negative Numbers Order of Operations Rounding			Prime Factor Decomposition Indices Simple Standard Form Estimation			Standard Form Calculate with Simple Surds Roots and Indices			Fractional and Negative Indices Standard Form Upper and Lower Bounds Surds			Fractional and Negative Indices Surds								
Fractions, Decimals and Percentages	Equivalent FDP Calculating with Fractions Place Value	Uses of Fractions Four Operations and Fractions Equivalent Fractions, Decimals and Percentages	Four Operations and Decimals Percentages: non calculator and calculator methods Multipliers			Fractions and Decimals Percentages: Reverse and Compound Financial Mathematics		Recurring Decimals Percentages and Fractions Recall														
Algebra	Algebraic Conventions Missing Number Problems Collecting Like Terms Simple Sequences Coordinates	Simplifying Algebra using the Four Operations Substitution Expanding Brackets Factorising Expressions Creating Expressions and Formula	Writing and Solving Equations	Special Sequences "nth Term" Coordinates	Simplifying Algebraic Expressions Linear Inequalities Constructing Expressions and Solving Equations Changing the Subject Substitution with Powers using Integers Simultaneous Equations		Straight Line Graphs Quadratic Graphs Sequences	Expanding (x ± a)(x ± b) Expanding and Factorising Identities, Equations and Formulae Solving Inequalities Construct and Solve Equations Changing the Subject of a Formula Introducing Algebraic Fractions	Quadratic Graphs Other Graphs y = mx + c Solving Simultaneous Equations (Elimination) Graphing Inequalities Sequences		Changing the Subject Manipulating Quadratics Proof	Equations Recap Solving Quadratics Simultaneous Equations Quadratic Sequences Other Sequences Simplifying Algebraic Fractions Working with Algebraic Fractions	Graphing Inequalities Parallel and Perpendicular Lines Quadratic Graphs Special Graphs Using Graphs in Context		Polynomials Solving Quadratics Recall Simultaneous Equations Recall Quadratic Inequalities Iterative Processes Functions Transformations of Functions Changing the Subject Recall Simplifying Algebraic Fractions Recall Perpendicular Lines Recall Graphical Solutions Recall					
Ratio and Proportion	Comparing Proportions		Writing and Simplifying Ratio Sharing in a given ratio Ratio and Proportion		Scales in Maps and Plans Working with Ratio and Proportion Congruency and Similarity			Ratio and Proportion Recall			Proportion and Ratio Recall Growth and decay Algebraic Proportional Equations											
Statistics and Probability	Averages Bar Charts Pictograms		Probability of Events Theoretical Probability Probability Experiments	Two-Way Tables Comparing Averages Bar Charts and Line Charts Averages from Tables (Discrete) Pie Charts		Probability Diagrams Repeated Events (AND/OR Rules) Tree Diagrams	Population and Sampling Averages from Tables Scatter Graphs	Cumulative Frequency Graphs Box Plots Scatter Graphs Histograms	Using Probability Diagrams Tree Diagrams			Permutations and Combinations Probability Trees Venn Diagrams Conditional Probability	Samples and Populations Cumulative Frequency Diagrams Box Plots Histograms								
Geometry and Measure	Naming Angle Measuring and Constructing Angles Naming 2D and 3D shapes Area and Perimeter of Rectangles	Working with Shape: correct notation and parts of circles Angles in Polygons		Units of Measure Area and Perimeter Compound Shapes Cubes and Cuboids Right-Angled Triangles: Pythagoras' Theorem Transformations Enlargement	Plans and Elevations Working with Prisms Circumference and Area of Circles Cylinders Right-Angled Triangles: Trigonometry	Angle Facts Bearings Congruent Transformations Enlarging by Positive Scale Factors Further Similarity	Speed, Distance, Time (Non Calc) Distance-Time Graphs		Compound Measures Upper and Lower Bounds *Bisectors* *Loci*	Right-angled Triangles: Trigonometry Exact Trig Values Arc Length and Area of Sectors Volume Congruency Vectors and Translations Congruent Transformations Similar Shapes	Arc Length and Sector Area Recall Volume and Surface Area	Congruent Transformations Enlargements Scale Factors, Area and Volume	*Bisectors* *Loci*	Exact Trig Values Applied Trigonometry 3D Geometry Trigonometric Graphs Advanced Trigonometry Vectors Circle Theorems	Velocity Time Graphs (Gradient and Areas)				