

## Cardinal Newman Catholic High School Curriculum Overview

Mathematics

KS4 Qualification: Edexcel GCSE Mathematics NMA0

	Year 7	Year 8	Year 9		Year 10				Year 11			
Autumn	Induction Course Number Course Decimals, Place Value & Rounding Directed Numbers Integers & BIDMAS	Equations Measures Graphs & Coordinates Probability Transformations Rounding & estimating	<b>Support</b> Integers & place value Decimals Fractions & percentages Factors, multiples & primes Indices, powers & roots Perimeter & area	<b>Core</b> Expand & simplify Factorising Percentages Fractions Ratio Two-wat tables Frequency Trees Rounding & error intervals Product of prime factors Multiples in context	<b>Support</b> Place value Time Negative numbers Powers & roots BIDMAS Multiplex & primes Writing & simplifying fractions	<b>Support/Core</b> Changing the subject Best Value Exchange rates Sampling Averages Averages from a table	<b>Core</b> Scatter graphs Volume & Surface Area Inequalities Pie Charts Growth & Decay Reverse percentages	<b>Core/Extension</b> Expanding & factorising Rearranging equations Recurring decimals Inequalities Circle Theorems Pie Charts Data	<b>Support</b> Substitution One step equation Area & perimeter Angles Averages Bar charts Stem & leaf Function machines	<b>Support/Core</b> Standard form Constructions & loci Scatter graphs Volume & surface area Inequalities Growth & decay Reverse percentages Straight line graphs Compound measures	<b>Core</b> Interior & exterior angles Transformations Probability Simultaneous equations Time series Real-life graphs	<b>Core/Extension</b> Product rule for counting Algebraic fractions Graphs & coordinate geometry Bounds Indices Quadratic formula & iteration & completing the square Transformations Probability Simultaneous equations
Spring	Fractions Percentages Ratio & Proportion Expressions & Formulae Fractions, Decimals &	Volume & surface area Finance Sequences Direct proportion Pie charts Loci & constructions	2D & 3D forms Drawing & interpreting tables & graphs Expressions & substitutions Properties of shapes & simple angle facts Basic algebra	Pythagoras Solving equations Subject of a formula Best Value Exchange rates Sampling Averages Averages from a table Estimations	Coordinates Pictograms Adding & subtracting Multiplying & dividing Rounding Systematic listing Simplifying algebra	Estimation Venn diagrams Circles Arcs & sectors Frequency diagrams Surds Trigonometry Angles in parallel lines	Straight-line graphs Compound measures Quadratic & cubic graphs Sequences Coordinate geometry Index laws	Growth & decay Reverse percentages Straight line graphs Surds Compound measures Quadratic & cubic graphs	Frequency polygons Fraction of an amount Drawing graphs Percentages Writing & simplifying a ratio Fractions Conversion units Scale drawings	Quadratic & cubic graphs Sequences Coordinate geometry Index laws Recipes/proportion Interior & exterior angles Transformations Probability Probability trees	Similarity & congruence Plans & elevations Bearings Vectors	Bearings Vectors Sequences Similarity & congruence Further graphs Circle geometry Functions Proof
Summer	Percentages Area & Perimeter Processing, Representing & Interpreting Angles	Scatter graphs & cumulative frequency Scales & bearings Pythagoras & trigonometry	Expand & simplify Factorising Percentages Fractions Ratio Two-wat tables Frequency Trees Rounding & error intervals Product of prime factors Multiples in context	Venn diagrams Circles Arcs & sectors Frequency diagrams Trigonometry Angles in parallel lines Standard form Scatter graphs Surface area & volume	Writing an expression Probability Calculation problems Fractions, decimals percentages Using a calculator	Standard form Scatter graphs Surface area & volume Inequalities Pie Charts Growth & decay Reverse percentages	Recipes & proportion Interior & exterior angles Transformations Probability Probability trees	Sequences Quadratic Sequences Product rule Algebraic fractions Further trig Coordinate geometry	Revision	Revision	Revision	Revision