



Ursuline College – Maths Department – Year 11 - Foundation Curriculum Journey



	Term 1	Term 2	Term 3	Term 4	Term 5
Year 11	Unit A14 – Linear and Quadratic - Solving equations - Forming equations - Inequalities - Coordinates - Drawing Linear and Quadratic graphs - Midpoint form two points Unit NP16 - Percentages - Percentages of an amount - Increasing and decreasing percentages. - Multipliers - Percentage change - Reverse percentages - Compound/Simple interest - Fractions, decimals and percentages	Unit GM10 - Vectors - Reflection - Enlargement - Rotation - Translations - Column vectors - Describe transformations - Congruence and Similarity Unit SP7 - Probability - Probability scale - Theoretical Probability - Two-way tables - Sample spaces - Stem and leaf - Frequency trees - Probability trees - Venn-diagrams First set of mocks and addressing gaps	Unit A15 - Functions & Graphs - Graphs and Charts - Bar charts, Pictograms, Scatter graph, frequency polygon, pie charts, real-life graphs. - Linear and quadratic graphs - Gradient $Y=mx+c$ - Proportion direct and inverse Unit A17 - Algebra Skills - Collect like terms - Expanding brackets - Factorising - Recap Solving equations - Sequences and Nth term - Simultaneous equations	Unit GM11 - Solving geometric problems - Scale drawings - Plans and elevations - Bearings - Area and perimeter - Volume and Surface area - Interior and exterior angles facts - Angles in parallel lines - Circles - Loci and construction - Pythagoras - Trigonometry Second set of mocks and addressing gaps	GCSE Practice and predicted papers Official GCSE exams

(Using a Highlighter, Highlight each section when it is completed.)





Ursuline College – Maths Department – Year 11 Higher - Curriculum Journey



	Term 1	Term 2	Term 3	Term 4	Term 5
Year 11	Unit A14 – Advanced Quadratic Graphs and Equations Forming and solving quadratic from context Completing the square to find roots Solve quadratic inequalities Solving simultaneous equations where one is linear and on non-linear Unit NP16 – Numerical and algebraic representations of proportion and change Direct proportion including square and cubic Compound interest Exponential growth and decay Advanced ratio work combining ratio and algebraic problems	Unit GM10 – Advanced vectors Translations as vectors Adding and subtracting vectors Multiplication of vectors by scale factors Magnitude of a vector Geometric arguments and proof using vectors Unit SP7 – Advanced Probability Predict outcomes of experiments with probability Theoretical probability Draw and interpret tree diagrams (conditional probability) Solving probability using Venn diagrams, two-way tables, sample spaces etc. Probability involving algebraic equations	Unit A15 – Functions & Advanced Graphs Reading and writing function notation Find inverse and composite functions Plot and interpret cubic, reciprocal and exponential functions Recognise and use equations of a circle, find equation of a tangent Estimate solutions to equations by drawing a graph Sketch translations and reflections of the graph of a given function Unit A16 – Pre-calculus Find and estimate instantaneous and average rates of change Find and estimate areas under curves and interpret these in a real context.	Unit A17 – Advanced Algebra Skills and Proof Algebraic fractions Generalising about numbers Disproof by counterexamples Algebraic proof Algebraic proof Unit GM11 – Solving geometric problems Drawing and reading scale drawings Solving angle problems including reasoning Solving kinematics Proving congruence of triangle Proving circle theorems Solving geometric problems	GCSE Practice and predicted papers Official GCSE exams

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