



Ursuline College – Maths Department – Year 10 - Foundation Curriculum Journey



	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	Unit SP4 – Continuous Data - Averages , Mode, Median, Range, Mean - Averages from a table - Comparing data - Analysing data Unit SP5 – Set Theory and Logic - Probability scale - Theoretical Probability - Two-way tables - Sample spaces - Stem and leaf - Frequency trees - Probability trees - Venn-diagrams - Solving inequalities	Unit NP14 – Number Theory - Four operations - Fractions, decimals and percentages - Negative numbers - Place value - Rounding and estimation - Powers and roots - Prime numbers and prime factorisation - HCF and LCM - Laws of indices - Standard form - Bounds and error intervals Unit A11 – Manipulating and simplifying expressions - Forming algebraic expressions - Collecting like terms - Expanding brackets - Factorising	Unit A12 – Quadratic Graphs and Equations - Substitution - Solving linear equations - Coordinates - Plotting linear graphs - Quadratic graphs - Roots and turning points Unit GM8 – Surface Area and Volume - Nets of 3D shapes - Surface area of prisms including spheres, pyramids, cones - Volume of prisms and cylinders including spheres, pyramids, cones - Unit conversions	Unit A13 – Sequences - Arithmetic sequences - Find missing terms - Visual and pattern sequences - Introduction to nth term - Finding the nth term - Using the nth term - Geometric sequences - Fibonacci sequence Revision for mocks and addressing gaps in learning	Unit GM9 – Length and Area - Perimeter including compound shapes - Area including compound shapes - Area and Circumference of circles - Finding missing lengths or sides - Loci and bearings - Introduction to Pythagoras - Introduction to Trigonometry Unit SP6 – Sampling and Data Analysis - Collecting and sampling data - Bar charts, frequency polygon and pie charts - Averages from frequency tables - Scatter graphs and correlation - Comparing data sets	Unit NP15 – Indices - Squares and cube numbers - Index laws - Indices within algebraic expressions - BIDMAS involving powers - Standard form - Operations with standard form End of Year revision and assessments. Close gaps in learning

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





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	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	Unit SP4 – Continuous Data - Averages - Continuous grouped data - Cumulative frequency tables - Box-plots/IQR Unit SP5 – Set Theory and Logic - Set Notation - Representing with Venn diagram - Venn diagram with probability - Independent/mutually exclusive events - Set notation with linear inequalities	Unit NP14 – Number Theory - HCF/LCM - Prime factors - Square/cube numbers factorise form - Recurring & terminating decimals - Recurring decimals - Error intervals - Bounds including calculations - Truncation Unit A11 – Expressions - Indices - Expand binomials - Factorising quadratics - Difference of two squares - Algebraic expression - Rearranging formulae	Unit A12 – Quadratic Graphs and Equations - Plotting Quadratic Graphs - Solving Quadratics Graphically - Solving Quadratic Equations - Using the Quadratic Formula - finding solutions on graph - Completing the Square - Sketch Graphs , Finding Roots/Y intercept Unit GM8 – Surface Area and Volume - Surface Area Prisms , Spheres, Pyramids, Cones, Frustrums	- Volume of Prisms, Cylinders, Spheres, Pyramids, Cones, Frustrums - Similarity and Scales Unit A13 – Advanced Sequences - Quadratic and Geometric Sequences - Fibonacci Sequence - Quadratic Sequences nth term Revision for mocks and addressing gaps in learning	Unit GM9 – Advanced Length and Area - Pythagoras 3D - Trigonometry 3D - Area of Triangle Segments - Sine/Cosine Rules - Area of Segment Unit SP6 – Sampling and Advanced Data Analysis - Complex Averages - Stratified Sampling - Drawing/Reading Histograms - Frequency Polygons - Averages from Frequency Polygon/Histograms	Unit NP15 – Indices and Surds - Rational/Irrational Integers - Multiplication/Division with Surds - Simplifying Surds - Adding/Subtracting Surds - Expanding Brackets with Surds - Rationalizing the Denominator - Negative/Fractional Indices - Equations with Indices - Problem Solving End of Year revision and assessments

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