

Year 11 LTP Higher Tier

Wk	Module 1 Grade 4	Module 2 Grade 5	Module 3 Grade 6+Grade7	Module 4 Grade 7 +Grade 8	Module 5
1	Index Notation Introduction to Bounds Midpoint of a line on a graph Expanding and simplifying Brackets	Negative Indices Error Intervals Mathematical Reasoning Factorising Quadratics	Recurring Decimals Product of three Binomials Iteration Iterative Processes	Direct and Inverse Proportion Transformation of functions Equations of circles Regions	
2	Solving Equations Rearranging Simple formulae Forming Formulae and equations Inequalities on a number line	Difference of squares Equations of lines Roots and turning Point of quadratic	Probability using Venn Diagram Cumulative Frequency Box Plots	Similarity Sine/Cosine Rule Area of Triangles using Sine/ Cosine rule	
3	Solving equations Solving simultaneous equations graphically Fibonacci Tree Diagram	Cubic and Reciprocal Graphs Simultaneous equations Algebraically Geometric Progression	Enlargements(negative Scale factors) Transformations Circle Theorems Circle theorem Proof	Upper and Lower Bounds Surds 3D Pythagoras	
4	Sampling Populations Time series Compound Units Time Distance Graphs	Hard Tree Diagrams Stratified sampling Compound Interest/ Deprecation	Grade 7 : Fractional indices Recurring Decimals proof Rearranging difficult formulae Quadratic Formula	3D trigonometry Vectors Perpendicular Lines	
5	Similar shapes Bisecting an angle Constructions Drawing Triangles Enlargements	Loci Congruent Triangles Sectors of circles Trigonometry	Factorising hard quadratics Algebraic Proof Exponential Proof	Completing the squares- Solving and sketching Algebraic fractions	
6	Tangents, Arcs, Sectors, Segment , Pythagoras	Spheres Pyramids Cones Frustums	Trigonometric Graphs	Simultaneous with Quadratic Solving Quadratic Inequalities Finding nth term of Quadratic sequences	
7		Trigonometric Values Vectors		Inverse Functions Composite Functions Velocity	
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