

Higher Tier Master Checklist

Advanced syllabus tracker targeting Grades 4 to 9.

How to use: Rate your confidence in each topic.

R = Red (Needs heavy revision) | **A** = Amber (Needs practice) | **G** = Green (Exam ready)

Number

Topic	R	A	G
Advanced Fractions & Decimals	☐	☐	☐
Fractional & Negative Indices	☐	☐	☐
Surds (Simplifying, Calculating & Rationalising)	☐	☐	☐
Recurring Decimals to Fractions	☐	☐	☐
Standard Form Calculations	☐	☐	☐
Upper & Lower Bounds (Calculations with bounds)	☐	☐	☐

Algebra

Topic	R	A	G
Expanding Double & Triple Brackets	☐	☐	☐
Factorising Quadratics ($a=1$ and $a>1$)	☐	☐	☐
Solving Quadratics (Factorising, Formula, Completing the Square)	☐	☐	☐
Simultaneous Equations (Linear & Quadratic)	☐	☐	☐
Algebraic Fractions (Simplify, Add, Sub, Mult, Div, Solve)	☐	☐	☐
Quadratic, Cubic & Reciprocal Graphs	☐	☐	☐

Topic	R	A	G
Equation of a Circle & Tangents	☐	☐	☐
Functions (Composite & Inverse)	☐	☐	☐
Iteration & Numerical Methods	☐	☐	☐
Quadratic & Graphical Inequalities	☐	☐	☐
Quadratic Sequences (nth term)	☐	☐	☐

Ratio, Proportion & Rates of Change

Topic	R	A	G
Algebraic Direct & Inverse Proportion ($y = kx$, $y = k/x^2$)	☐	☐	☐
Compound Interest, Growth & Decay	☐	☐	☐
Velocity-Time & Space-Time Graphs (Gradients & Areas)	☐	☐	☐

Geometry & Measures

Topic	R	A	G
Circle Theorems & Geometric Proof	☐	☐	☐
Sine Rule, Cosine Rule & Area of Triangle ($\frac{1}{2}ab \sin C$)	☐	☐	☐
3D Pythagoras & 3D Trigonometry	☐	☐	☐
Exact Trigonometric Values	☐	☐	☐
Graphs of Trigonometric Functions (Sine, Cosine, Tangent)	☐	☐	☐
Vectors (Arithmetic, Geometry & Proofs)	☐	☐	☐
Similar Shapes (Area & Volume Scale Factors)	☐	☐	☐
Volume & Surface Area of Frustums, Spheres & Cones	☐	☐	☐

Statistics

Topic	R	A	G
Histograms (Frequency Density)	☐	☐	☐
Cumulative Frequency (Graphs & Estimating Medians/ Quartiles)	☐	☐	☐
Box Plots (Comparing Distributions)	☐	☐	☐
Stratified Sampling	☐	☐	☐
Estimating the Mean of Grouped Continuous Data	☐	☐	☐

Probability

Topic	R	A	G
Advanced Tree Diagrams (Without Replacement / Conditional)	☐	☐	☐
Venn Diagrams & Set Notation (Union, Intersection)	☐	☐	☐
Algebraic Probability (Solving equations from probability problems)	☐	☐	☐