

UK GCSE Maths (9–1): Higher Tier Checklist (Grades 4–9)

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Includes Crossover Topics (Grades 4–5) & Higher-Only Topics (Grades 6–9)



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Grade 4

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|---|--|
| ☐ Percentage Multipliers | ☐ Angles in Polygons |
| ☐ Compound Interest | ☐ Bearings |
| ☐ Prime Factor Trees | ☐ Translations, Reflections & Rotations |
| ☐ HCF & LCM | ☐ Constructions & Loci |
| ☐ Laws of Indices | ☐ Pythagoras' Theorem |
| ☐ Indices with Numbers & Letters | ☐ Surface Area |
| ☐ Brackets (Single) | ☐ Volume of Prisms |
| ☐ Forming & Solving Equations | ☐ Cylinders |
| ☐ Linear Inequalities | ☐ Averages from Tables |
| ☐ Linear & Special Sequences | ☐ Relative Frequency |
| ☐ Real Life Graphs | ☐ Scatter Graphs |
| ☐ Angles in Parallel Lines | |

Grade 5

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|---|--|
| ☐ Reverse Percentages | ☐ Linear Direct Proportion |
| ☐ Standard Form (Converting) | ☐ Direct & Inverse Proportion |
| ☐ Standard Form (Calculating) | ☐ Speed, Distance, Time |
| ☐ Changing the Subject | ☐ Density, Mass, Volume |
| ☐ Gradient of a Line | ☐ Pressure, Force, Area |
| ☐ Equation of a Line | ☐ Sector Area & Arc Length |
| ☐ Expanding & Factorising Quadratics | ☐ Enlargements |
| ☐ Solving Quadratics by Factorising | ☐ Vectors |
| ☐ Linear Simultaneous Equations | ☐ Spheres and Cones |
| ☐ Solving Equations Graphically | ☐ Congruent Triangles |
| ☐ Quadratic, Cubic & Reciprocal Graphs | ☐ Trigonometry Exact Values |
| ☐ Ratio Contexts | ☐ SOHCAHTOA |
| ☐ Ratios & Fractions | ☐ Venn Diagrams |
| ☐ Combining Ratios | ☐ Probability Trees |

Grade 6

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| ☐ Recurring Decimals | ☐ Negative Enlargements & Invariant Points |
| ☐ Negative & Fractional Indices | ☐ Product Rule for Counting |
| ☐ Expanding Triple Brackets | ☐ Cumulative Frequency |
| ☐ Graphical Inequalities | ☐ Box Plots |
| ☐ Perpendicular Lines | ☐ Stratified Sampling |
| ☐ Circle Theorems | ☐ Capture-Recapture |

Grade 7

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| ☐ Simplifying Surds | ☐ Algebraic Fractions |
| ☐ Expanding with Surds | ☐ Algebraic Proportion |
| ☐ Rationalising the Denominator | ☐ Similar Shapes: Area, Volume & Frustums |
| ☐ Calculating with Bounds | ☐ 3D Pythagoras & Trig |
| ☐ Rearranging Harder Formulae | ☐ The Sine Rule |
| ☐ Factorising Harder Quadratics | ☐ The Cosine Rule |
| ☐ The Quadratic Formula | ☐ Area of Any Triangle |
| ☐ Quadratic Sequences | ☐ Conditional Probability |
| ☐ Functions | ☐ Histograms |
| ☐ Trig & Exponential Graphs | |

Grade 8

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| ☐ Completing the Square | ☐ Transforming Graphs |
| ☐ Quadratic Simultaneous Equations | ☐ Kinematics |
| ☐ Quadratic Inequalities | ☐ Velocity-Time Graphs |
| ☐ Iteration | |

Grade 9

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| ☐ Algebraic Proof | ☐ Vector Proofs |
| ☐ Equation of a Circle | ☐ Probability Equations |
| ☐ Gradients & Rates of Change | |