

UK GCSE Maths (9–1): Complete Topic Checklist (Grades 1–9)

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Grade 1

- | | |
|--|---|
| ☐ Negative Numbers | ☐ BIDMAS |
| ☐ Decimals | ☐ Powers & Roots |
| ☐ Ordering Decimals | ☐ Factors & Multiples |
| ☐ Rounding | ☐ Fractions (Simplify, $<$, $=$, $>$) |
| ☐ Money Problems | ☐ Pictograms |
| ☐ Time & Timetables | |

Grade 2

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|--|---|
| ☐ Fractions of an Amount | ☐ Probability Scale & Basics |
| ☐ FDP Conversions | ☐ Systematic Listing |
| ☐ Intro to Algebra | ☐ Averages |
| ☐ Function Machines | ☐ Bar Charts |
| ☐ Linear Equations | ☐ Pie Charts |
| ☐ Coordinates & Midpoints | ☐ Stem and Leaf Diagrams |
| ☐ Angles in Lines, Triangles & Quadrilaterals | ☐ Frequency Polygons |
| ☐ Area and Perimeter | |

Grade 3

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| ☐ Estimation | ☐ Exchange Rates |
| ☐ Limits of Accuracy | ☐ Best Buys |
| ☐ Fractions ($+$ / $-$) | ☐ Unit Conversions |
| ☐ Fractions ($\times$ / $\div$) | ☐ Scale Drawings & Maps |
| ☐ Reciprocals | ☐ Area & Circumference |
| ☐ Percentages of an Amount | ☐ Parts of a Circle |
| ☐ Percentage Change | ☐ Area of Compound Shapes |
| ☐ Simple Interest | ☐ 3D Solids, Plans & Elevations |
| ☐ Simplifying Ratios | ☐ Frequency Trees |
| ☐ Sharing in a Ratio | ☐ Two-Way Tables |
| ☐ Recipes | |

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 | |