

Maths GCSE Topics (By grade)
Grades 9-4-Higher; Grades 5-1 – Foundation

Grade 8/9

[Quadratic Simultaneous Equations](#)

[Transforming Graphs \$y=f\(x\)\$](#)

[Proof](#)

[Completing the Square](#)

[The Nth Term of a Quadratic Sequence](#)

[Quadratic Inequalities](#)

[Velocity Time Graphs](#)

[Proof of the Circle Theorems](#)

[Perpendicular Lines and the equation of a tangent](#)

[Vectors Proof Questions](#)

[Probability Equation Questions](#)

Grade 7

[Surds](#)

[Bounds](#)

[Direct and Inverse Proportion](#)

[Quadratic Formula](#)

[Factorising Harder Quadratics](#)

[Algebraic Fractions](#)

[Rearranging Harder Formulae](#)

[Trigonometric and Exponential Graphs](#)

[Inverse and Composite Functions](#)

[Iteration](#)

[Finding the Area of Any Triangle](#)

[The Sine Rule](#)

[The Cosine Rule](#)

[Congruent Triangles](#)

[3d Pythagoras and Trigonometry](#)

[Histograms](#)

[Conditional Probability](#)

Grade 6

[Recurring Decimals to Fractions](#)

[Fractional and Negative Indices](#)

[The Product Rule for Counting](#)

[Repeated Percentage Change](#)

[Expanding Triple Brackets](#)

[Parallel and Perpendicular Lines](#)

[Inequalities on Graphs](#)

[Similar Shapes \(Area and Volume\)](#)

[Enlarging with Negative Scale Factors](#)

[Circle Theorems](#)

[Cumulative Frequency](#)

[Box Plots](#)

[Capture Recapture](#)

Grade 5

[Writing a Ratio as a Fraction or Linear Function](#)

[Direct and Inverse Proportion](#)

[Reverse Percentages](#)

[Standard Form](#)

[Speed and Density](#)

[Changing the Subject of a Formula](#)

[Expanding and Factorising Quadratics](#)

[Solving Quadratics](#)

[Drawing Quadratic Graphs](#)

[Drawing Other Graphs: Cubic/Reciprocal](#)

[Simultaneous Equations](#)

[Solving Simultaneous Equations Graphically](#)

[Midpoint of a Line Segment](#)

[Gradient of a Line](#)

[Equation of a Line](#)

[Spheres and Cones](#)

[Sector Areas and Arc Lengths](#)

[Similar Shapes \(Lengths\)](#)

[SOHCAHTOA \(Trigonometry\)](#)

[Exact trig values](#)

[Vectors](#)

[Probability Trees](#)

[Venn Diagrams](#)



Maths GCSE Topics (By grade)
Grades 9-4-Higher; Grades 5-1 – Foundation

Grade 4

[Compound Interest and Depreciation](#)

[Indices](#)

[Prime Factors, HCF and LCM](#)

[Real Life and Distance Time Graphs](#)

[Inequalities](#)

[Forming and Solving Equations](#)

[Sequences \(Nth Term\)](#)

[Expanding and Factorising](#)

[Pythagoras](#)

[Angles in Parallel Lines](#)

[Angles in Polygons](#)

[Surface Area](#)

[Volume of a Prism](#)

[Cylinders](#)

[Loci and Construction](#)

[Bearings](#)

[Plans and Elevations](#)

[Averages from Frequency Tables](#)

[Probability](#)

[Scatter Graphs](#)

Grade 3

[Error Intervals](#)

[Fractions](#)

[Estimating](#)

[Writing and Simplifying Ratio](#)

[Ratio](#)

[Proportion](#)

[Percentages](#)

[Percentage Change](#)

[Exchange Rates](#)

[Conversions and Units](#)

[Scale Drawings](#)

[Best Buy Questions](#)

[Substitution](#)

[Solving Equations](#)

[Drawing Graphs](#)

[Area and Circumference of Circles](#)

[Transformations](#)

[Rotations](#)
[Reflections](#)
[Enlargements](#)
[Translations](#)
[Mixed Transformations](#)

[Area of Compound Shapes](#)

[Frequency Trees](#)

[Two Way Tables](#)



Maths GCSE Topics (By grade)
Grades 9-4-Higher; Grades 5-1 – Foundation

Grade 2

Calculation Problems

Using a Calculator

Systematic Listing

Fractions of an Amount

Fractions, Decimals and Percentages

Simplifying Algebra

Writing an Expression

Function Machines

Solving One Step Equations

Angles

Area and Perimeter

Probability

Frequency Polygons

Averages

Bar Charts

Stem and Leaf

Pie Charts

Grade 1

Addition and Subtraction

Multiplication and Division

Time

Writing, Simplifying and Ordering Fractions

Place Value

Rounding

Negative Numbers

Powers and Roots

BIDMAS

Factors and Multiples

Coordinates

Pictograms

