



AQA

**GCSE (9-1) Mathematics
New Specification (8300)**

Specification Summary

Grades 1/2

Addition and Subtraction
Multiplication and Division
Powers and Roots
Factors and Multiples
Fractions of an Amount
Fractions, Decimals and Percentages
Negative Numbers
BIDMAS
Simplifying Algebra
Angles
Area
Averages
Frequency Polygons
Stem and Leaf
Pie Charts

Grade 3

Fractions

Ratio

Proportion

Percentages

Exchange Rates

Best Buy Questions

Substitution

Solving Equations with an Unknown on Both Sides

Drawing Graphs

Area and Circumference of Circles

Transformations - Rotations

Transformations - Reflections

Transformations - Enlargements

Transformations - Translations

Transformations - Mixed Transformations

Area of Compound Shapes

Probability

Grade 4

Compound Interest and Depreciation

Indices

HCF and LCM

Functional Maths Questions

Inequalities

Inequalities on Graphs

Forming and Solving Equation

Sequences (Nth Term)

Expanding and Factorising

Pythagoras

Angle Problems

Angles in Parallel Lines

Angles in Polygons

Surface Area
Volume of Prisms
Cylinders
Loci and Construction
Bearings
Averages from Frequency Tables
Probability
Scatter Graphs

Grade 5

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
Equation of a Line
Spheres and Cones
Sector Areas and Arc Lengths
Similar Shapes (Lengths)
SOHCAHTOA
Congruent Triangles
Probability Trees
Venn Diagrams

Grade 6

Recurring Decimals to Fractions

Fractional and Negative Indices
Similar Shapes (Area and Volume)
Enlarging with Negative Scale Factors
Circle Theorems
Cumulative Frequency and Box Plots

Grade 7

Surds
Bounds
Direct and Inverse Proportion
Quadratic Formula
Algebraic Fractions
Rearranging Harder Formulae
Harder Graphs: Trig/Exponential
Inverse and Composite Functions
Solving Equations using Iteration
Sine Rule, Cosine Rule, Area of Any Triangle
3D Pythagoras
Vectors
Histograms
Venn Diagrams ("Given that" questions)

Grade 8-9

Simultaneous Equations with a Quadratic
Transforming Graphs $y=f(x)$
Proof
Completing the Square
The Nth Term of a Quadratic Sequence
Quadratic Inequalities

www.scienceclinic.co.uk
www.private-tuition.org

Velocity Time Graphs

Proof of the Circle Theorems

Perpendicular Lines and the Equation of a Tangent