GCSE Maths Topic List - Higher

Topics	Tick	Comments
Number		
Multiply & Divide Decimals		
Product Rule for Counting		
Estimations		
Laws of Indices		
Negative and Fractional		
Indices		
Highest Common Factor		
Lowest Common Multiple		
Product of Prime Factors		
Standard Form Conversions		
Standard Form Calculations		
Surds Calculations		
Rationalising Fractional Surds		
Fraction Calculations		
Recurring Decimals		
Percentages of an Amount		
Reverse Percentages		
Error Intervals		
Calculating with Bounds		

Topics	Tick	Comments
Algebra		
Collecting Like Terms		
Substitution		
Laws of Indices		
Expanding and simplifying		
Factorising Expressions		
Expanding Double Brackets		
Factorising Quadratics		
Expanding Triple Brackets		
Rearranging Formulae		
Solving Equations		
Linear Sequences		
Quadratic Sequences		
Geometric Sequences		
Linear Graphs		
Quadratic/Cubic Graphs		
Reciprocal/Exponential Graphs		
Perpendicular Lines		

GCSE Maths Topic List - Higher

Equations & Tangents of Circles		
Forming and Solving Equations		
Solving Quadratic Equations		
The Quadratic Formula		
Completing the Square		
Solving Linear Inequalities		
Solving Quadratic Inequalities		
Linear Simultaneous Equations		
Quadratic Sim. Equations		
Iterations		
Function Calculations		
Inverse Functions		
Composite Functions		
Simplifying Algebraic Fractions		
Algebraic Fraction Calculations		
Graph Transformations		
Algebraic Proof		

Probability		
Probability from a Table		
Relative Frequency		
Venn Diagrams		
Set Theory		
Frequency Trees		
Two Way Tables		
Probability Trees (Independent)		
Probability Trees (Dependent)		
Probability Equations		

Statistics		
Averages		
Reverse Mean		
Averages from a Table		
Grouped Frequency Tables		
Scatter Graphs		
Frequency Polygons		
Sampling and Bias		
Pie Charts		
Interquartile Range		
Box Plots		
Averages from a Stem and Leaf		
Cumulative Frequency Graphs		
Histograms		

GCSE Maths Topic List - Higher

Ratio & Proportion		
Sharing in a Ratio		
Three Part Ratios		
Writing Ratios as Fractions		
Recipes		
Exchange Rates		
Best Value Purchases		
Conversion Graphs		
Compound Interest		
Depreciation		
Direct Proportion		
Inverse Proportion		
Speed, Distance & Time		
Mass, Density & Volume		
Pressure, Force & Area		
Velocity Time Graphs		
Area under a Graph		
Gradient of a Graph		
Equating Ratios		

Geometry		
Triangles & Quadrilaterals		
Similar Shapes		
Area of 2D Shapes		
Angles in Parallel Lines		
Angles in Polygons		
Plans & Elevations		
Construction & Loci		
Area & Circumference of Circles		
Circle Sectors		
Surface Area of 3D Shapes		
Volume of 3D Shapes		
Cylinders, Cones & Spheres		
Transformations		
Bearings		
Similar Shapes		
Congruent Triangles		
Circle Theorems		
Vectors		
Geometric Proof		

GCSE Maths Topic List - Higher

Trigonometry		
Pythagoras Theorem		
3D Pythagoras		
SOHCAHTOA Sides Lengths		
SOHCAHTOA Angles		
Sine Rule		
Cosine Rule		
3D Trigonometry		
Area of a Triangle		
Exact Trigonometry		
Trigonometric Graphs		
Trigonometric Proof		