

Category	GCSE Maths Topics
71 Numbers & Arithmetic	Understanding Mathematical Symbols ( $=$ , $\leq$ , $<$ , $\geq$ , $>$ , $\neq$ )
72 Numbers & Arithmetic	Using Reverse Calculations to Check Answers
73 Numbers & Arithmetic	Simplifying Fractions Using Cancellation
74 Numbers & Arithmetic	Understanding Powers and Roots
75 Numbers & Arithmetic	Using Reciprocals in Calculations
76 Numbers & Arithmetic	Prime Numbers and Their Properties
77 Numbers & Arithmetic	Writing Numbers as Products of Prime Factors
78 Numbers & Arithmetic	Finding the Highest Common Factor (HCF) Using Prime Factorization
79 Numbers & Arithmetic	Finding the Lowest Common Multiple (LCM) Using Prime Factorization
80 Numbers & Arithmetic	Systematic Listing Strategies
81 Numbers & Arithmetic	Square Numbers and Their Roots
82 Numbers & Arithmetic	Cube Numbers and Their Roots
83 Numbers & Arithmetic	Working with $\pi$ (Pi) in Calculations
84 Numbers & Arithmetic	Understanding and Using Standard Index Form
85 Numbers & Arithmetic	Converting Between Fractions and Ratios
86 Numbers & Arithmetic	Rounding Numbers to an Appropriate Degree of Accuracy
87 Algebra	Basic Algebraic Manipulation ( $a \times b = ab$ , $a + a = 2a$ , $a^2$ , etc.)
88 Algebra	Writing Coefficients as Fractions
89 Algebra	Factorising Expressions with a Single Bracket
90 Algebra	Factorising Quadratics with $x^2$ Coefficient of 1
91 Algebra	Using the Difference of Two Squares to Factorise
92 Algebra	Simplifying Expressions Using the Laws of Indices
93 Algebra	Rearranging Formulae to Change the Subject
94 Algebra	Equations vs Identities: Understanding the Difference
95 Algebra	Recognising Equivalent Expressions to Set Up Equations
96 Algebra	Solving Linear Equations Algebraically and Graphically
97 Algebra	Solving Quadratic Equations Algebraically and Graphically
98 Algebra	Solving Simultaneous Equations Algebraically and Graphically
99 Algebra	Setting Up and Solving Simultaneous Equations in Real-Life Problems
100 Algebra	Solving Linear Inequalities and Representing Solutions on a Graph/Number Line
101 Algebra	Generating Sequences from Term-to-Term and Position-to-Term Rules
102 Algebra	Finding the $n$ th Term of a Sequence
103 Algebra	Recognising Special Sequences (Triangle, Square, Cube, Fibonacci)
104 Algebra	Understanding Ratios and Using Cross Multiplication
105 Algebra	Using Density, Pressure, and Speed-Distance-Time Formulas

Category	GCSE Maths Topics
106 Graphs & Proportion	Plotting Straight Line Graphs ( $y = mx + c$ )
107 Graphs & Proportion	Understanding Parallel Line Equations
108 Graphs & Proportion	Interpreting Gradients Graphically and Algebraically
109 Graphs & Proportion	Key Features of Quadratic Graphs (Roots, Intercepts, Turning Points)
110 Graphs & Proportion	Understanding Speed-Time Graphs and Connections to Acceleration, Speed, and Distance
111 Graphs & Proportion	Interpreting the Gradient of a Graph as a Rate of Change
112 Graphs & Proportion	Recognising Graphs That Represent Direct and Inverse Proportion
113 Graphs & Proportion	Comparing Lengths, Areas, and Volumes Using Ratios
114 Geometry & Trigonometry	Interior and Exterior Angles of Polygons
115 Geometry & Trigonometry	Angle Facts - Parallel Lines
116 Geometry & Trigonometry	Properties of Quadrilaterals and Special Triangles
117 Geometry & Trigonometry	Congruence Tests (SAS, ASA, SSS) and Similarity
118 Geometry & Trigonometry	Applying Pythagoras' Theorem
119 Geometry & Trigonometry	Understanding and Using SOH-CAH-TOA in Trigonometry
120 Geometry & Trigonometry	Exact Values for sin, cos, and tan
121 Geometry & Trigonometry	Describing and Representing Translations as Vectors
122 Geometry & Trigonometry	Adding, Subtracting, and Multiplying Vectors by a Scalar
123 Geometry & Trigonometry	Transformations: Rotation, Reflection and Translation
124 Geometry & Trigonometry	Transformations: Enlargement
125 Geometry & Trigonometry	Measuring Lines, Angles, and Bearings
126 Geometry & Trigonometry	Calculating the Area of Parallelograms and Trapeziums
127 Geometry & Trigonometry	Calculating Arc Lengths, Angles, and Areas of Sectors
128 Geometry & Trigonometry	Applying Concepts of Congruency and Similarity to Solve Length Problems
129 Geometry & Trigonometry	Constructing Geometric Shapes and Bisectors
130 Geometry & Trigonometry	Identifying Properties of 3D Shapes (Cubes, Prisms, Cylinders, Pyramids, Cones, Spheres)
131 Probability & Data	Recording Outcomes Using Sample Space Diagrams
132 Probability & Data	Understanding Experimental Probability and Relative Frequency
133 Probability & Data	Mutually Exclusive Events and Probabilities Summing to 1
134 Probability & Data	Theoretical vs Experimental Probability
135 Probability & Data	Constructing Venn diagram for Probability
136 Probability & Data	Using Probability Tree Diagrams for Dependent Events
137 Probability & Data	Creating and Interpreting Charts (Bar, Pie, Line, Pictograms)
138 Probability & Data	Making Frequency Tables and Vertical Line Graphs for Time Series Data
139 Number & Arithmetic	Adding and Subtracting with Negative Numbers
140 Number & Arithmetic	Multiplying and Dividing with Negative Numbers