








GCSE Mathematics Grade 4, 5, 6, 7, 8 & 9

Student Check list linked to 'mathswatch '

Student

CN	Topics	Area	Grade			
131	Index Notation	Number	4			
132	Introduction to Bounds	Number	4			
133	Midpoint of a Line on a Graph	Algebra	4			
134a	Expanding and Simplifying Brackets - Single Set of Brackets	Algebra	4			
134b	Expanding and Simplifying Brackets - Double Set of Brackets	Algebra	4			
135a	Solving Equations - Balancing	Algebra	4			
135b	Solving Equations - Float & Ping	Algebra	4			
136	Rearranging Simple Formulae	Algebra	4			
137	Forming Formulae and Equations	Algebra	4			
138	Inequalities on a Number Line	Algebra	4			
139	Solve Linear Inequalities	Algebra	4			
140	Simultaneous Equations Graphically	Algebra	4			
141	Fibonacci Sequences	Algebra	4			
142	Compound Units	Ratio	4			
143	Distance-Time Graphs	Ratio	4			
144	Similar Shapes	Ratio	4			
145	Bisecting an Angle	Geometry	4			
146a	Constructing Perpendiculars - Bisecting a Line	Geometry	4			
146b	Constructing Perpendiculars - From any Point	Geometry	4			
147	Draw a Triangle Using Compasses	Geometry	4			
148	Enlargements	Geometry	4			
149	Tangents, Arcs, Sectors and Segments	Geometry	4			
150a	Pythagoras' Theorem - A Simple Approach	Geometry	4			
150b	Pythagoras' Theorem - An Algebraic Approach	Geometry	4			
150c	Pythagoras' Theorem - Line on a Graph	Geometry	4			
151	Simple Tree Diagrams	Probability	4			
152	Sampling Populations	Probability	4			
153	Time Series	Probability	4			

CN	Topics	Area	Grade			
154	Negative Indices	Number	5			
155	Error Intervals	Number	5			
156	Mathematical Reasoning	Number	5			
157	Factorising and Solving Quadratics	Algebra	5			
158	The Difference of Two Squares	Algebra	5			
159a	Finding the Equation of a Straight Line - $y=mx+c$	Algebra	5			
159b	Finding the Equation of a Straight Line - Gradient and Coordinates	Algebra	5			
160	Roots and Turning Points of Quadratics	Algebra	5			
161	Cubic and Reciprocal Graphs	Algebra	5			
162	Simultaneous Equations Algebraically	Algebra	5			
163	Geometric Progressions	Algebra	5			
164	Compound Interest and Depreciation	Ratio	5			
165	Loci	Geometry	5			
166	Congruent triangles	Geometry	5			
167	Sectors of a Circle	Geometry	5			
168	Trigonometry	Geometry	5			
169	Spheres	Geometry	5			
170	Pyramids	Geometry	5			
171	Cones	Geometry	5			
172	Frustums	Geometry	5			
173	Exact Trigonometric Values	Geometry	5			

CN	Topics	Area	Grade			
174	Introduction to Vectors	Geometry	5			
177	Recurring Decimals to Fractions	Number	6			
178	Product of Three Binomials	Algebra	6			
179	Iteration - Trial and Improvement	Algebra	6			
180	Iterative Processes	Algebra	6			
181a	Enlargement - Negative Scale Factor - Using Construction Lines	Geometry	6			
181b	Enlargement - Negative Scale Factor - Using Column Vectors	Geometry	6			
182	Combinations of Transformations	Geometry	6			
183	Circle Theorems	Geometry	6			
184	Proof of Circle Theorems	Geometry	6			
185	Probability using Venn Diagrams	Probability	6			
186	Cumulative Frequency	Probability	6			
187	Boxplots	Probability	6			
188	Fractional Indices	Number	7			
189	Recurring Decimals - Proof	Number	7			
190	Rearranging difficult Formulae	Algebra	7			
191	Solving Quadratics with the Formula	Algebra	7			
192	Factorising Hard Quadratics	Algebra	7			
193	Algebraic Proof	Algebra	7			
194	Exponential Functions	Algebra	7			
195a	Trigonometric Graphs - Sine and Cosine	Algebra	7			
195b	Trigonometric Graphs - Tangent	Algebra	7			
196a	Transformation of Functions - Polynomial Functions	Algebra	7			
196b	Transformation of Functions - Trigonometric Functions	Algebra	7			
197	Equation of a Circle	Algebra	7			
198	Regions	Algebra	7			
199	Direct and Inverse Proportion	Ratio	7			
200	Similarity - Area and Volume	Geometry	7			
201	The Sine Rule	Geometry	7			
202	The Cosine Rule	Geometry	7			
203	Area of a Triangle Using Sine	Geometry	7			
204	And & Or Probability Questions	Probability	7			
205	Histograms	Probability	7			
206	Upper and Lower Bounds	Number	8 - 9			
207a	Surds - Introduction to Surds	Number	8 - 9			
207b	Surds - Surd Expressions	Number	8 - 9			
207c	Surds - Rationalising the Denominator	Number	8 - 9			
208	Perpendicular Lines	Algebra	8 - 9			
209a	Completing the Square - Basics	Algebra	8 - 9			
209b	Completing the Square - Solving	Algebra	8 - 9			
209c	Completing the Square - Sketching	Algebra	8 - 9			
210a	Algebraic Fractions - Simplifying	Algebra	8 - 9			
210b	Algebraic Fractions - Solving	Algebra	8 - 9			
211	Simultaneous Equations with a Quadratic	Algebra	8 - 9			
212	Solve Quadratic Inequalities	Algebra	8 - 9			
213	Finding the nth Term of a Quadratic	Algebra	8 - 9			
214a	Inverse Functions - Introduction	Algebra	8 - 9			
214b	Inverse Functions - Harder Questions	Algebra	8 - 9			
215	Composite Functions	Algebra	8 - 9			
216	Velocity-Time Graphs	Algebra	8 - 9			
217	Pythagoras in 3D	Geometry	8 - 9			
218	Trigonometry in 3D	Geometry	8 - 9			
219	Vectors	Geometry	8 - 9			