







GCSE Mathematics Grade 1, 2, 3, 4, & 5

Student Check list linked to 'mathswatch '

Student _____

CN	Topics	Area	Grade			
1	Place Value	Number	1			
2	Ordering Integers	Number	1			
3	Ordering Decimals	Number	1			
4	Reading Scales	Number	1			
5	Simple Mathematical Notation	Number	1			
6a	Interpreting Real-Life Tables - Time	Number	1			
6b	Interpreting Real-Life Tables - Timetables and Distance Tables	Number	1			
7	Introduction to Algebraic Conventions	Algebra	1			
8	Coordinates	Algebra	1			
9	Simple Geometric Definitions	Geometry	1			
10	Polygons	Geometry	1			
11	Symmetries	Geometry	1			
12a	Tessellations and Congruency - Tessellations	Geometry	1			
12b	Tessellations and Congruency - Congruent Shapes	Geometry	1			
13	Names of Angles	Geometry	1			
14	The Probability Scale	Probability	1			
15	Tally Charts and Bar Charts	Probability	1			
17	Adding Integers and Decimals	Number	2			
18	Subtracting Integers and Decimals	Number	2			
19	Multiplying Integers	Number	2			
20	Dividing Integers	Number	2			
21	Inverse Operations	Number	2			
22a	Money Questions - Non-Calculator Questions	Number	2			
22b	Money Questions - Calculator Questions	Number	2			
23	Negatives in Real Life	Number	2			
24	Introduction to Fractions	Number	2			
25	Equivalent Fractions	Number	2			
26	Simplifying Fractions	Number	2			
27	Half-Way Values	Number	2			
28	Factors, Multiples and Primes	Number	2			
29	Introduction to Powers/Indices	Number	2			
30	Multiplying and Dividing by Powers of 10	Number	2			
31	Rounding to the Nearest 10, 100, 1000	Number	2			
32	Rounding to Decimal places	Number	2			
33	Simplifying - Addition and Subtraction	Algebra	2			
34	Simplifying - Multiplication	Algebra	2			
35	Simplifying - Division	Algebra	2			
36	Function Machines	Algebra	2			
37	Generating a Sequence - Term to Term	Algebra	2			
38	Introduction to Ratio	Ratio	2			
39	Using Ratio for Recipe Questions	Ratio	2			
40	Introduction to Percentages	Ratio	2			
41	Value for Money	Ratio	2			
42	Simple Proportion	Ratio	2			
43	Properties of Solids	Geometry	2			
44	Nets	Geometry	2			
45	Angles on a Line and at a Point	Geometry	2			
46a	Measuring and drawing Angles - Measuring	Geometry	2			
46b	Measuring and drawing Angles - Drawing	Geometry	2			

CN	Topics	Area	Grade			
47	Drawing a Triangle Using a Protractor	Geometry	2			
48	Reflections	Geometry	2			
49	Rotations	Geometry	2			
50	Translations	Geometry	2			
51	Plans and Elevations	Geometry	2			
52	Perimeters	Geometry	2			
53	Area of a Rectangle	Geometry	2			
54	Area of a Triangle	Geometry	2			
55	Area of a Parallelogram	Geometry	2			
56	Area of a Trapezium	Geometry	2			
57	Frequency Trees	Probability	2			
58	Listing Outcomes	Probability	2			
59	Calculating Probabilities	Probability	2			
60	Mutually Exclusive Events	Probability	2			
61	Two-Way Tables	Probability	2			
62	Averages and the Range	Probability	2			
63	Data - Discrete and Continuous	Probability	2			
64	Vertical Line Charts	Probability	2			
65	Frequency Tables and Diagrams	Probability	2			
66	Multiplying Decimals	Number	3			
67	Dividing Decimals	Number	3			
68a	Four Rules of Negatives - Adding and Subtracting	Number	3			
68b	Four Rules of Negatives - Multiplying and Dividing	Number	3			
69	Listing Strategies	Number	3			
70	Comparing Fractions	Number	3			
71a	Adding and Subtracting Fractions - A Standard Method	Number	3			
71b	Adding and Subtracting Fractions - An Alternative Method	Number	3			
72	Finding a Fraction of an Amount	Number	3			
73	Multiplying Fractions	Number	3			
74	Dividing Fractions	Number	3			
75	BODMAS/BIDMAS	Number	3			
76	Reciprocals	Number	3			
77	Calculator Questions	Number	3			
78	Product of Primes	Number	3			
79	Highest Common Factor (HCF)	Number	3			
80	Lowest Common Multiple (LCM)	Number	3			
81	Squares, Cubes and Roots	Number	3			
82	Working with Indices	Number	3			
83	Standard Form	Number	3			
84	Decimals and Fractions	Number	3			
85	Fractions, Percentages, Decimals	Number	3			
86	Percentage of an Amount (Calc.)	Number	3			
87	Percentage of an Amount (Non-Calc.)	Number	3			
88	Change to a Percentage (Calc.)	Number	3			
89	Change to a Percentage (Non-Calc.)	Number	3			
90	Rounding to Significant Figures	Number	3			
91	Estimating Answers	Number	3			
92	Using Place Value	Number	3			
93	Expanding Brackets	Algebra	3			
94	Simple Factorisation	Algebra	3			
95	Substitution	Algebra	3			
96	Straight Line Graphs	Algebra	3			
97	The Gradient of a Line	Algebra	3			

CN	Topics	Area	Grade			
98	Drawing Quadratic Graphs	Algebra	3			
99	Sketching Functions	Algebra	3			
100	Solving Equations using Flowcharts	Algebra	3			
101	Subject of a Formula using Flowcharts	Algebra	3			
102	Generating a Sequence from the nth Term	Algebra	3			
103	Finding the nth Term	Algebra	3			
104	Special Sequences	Algebra	3			
105	Exchanging Money	Ratio	3			
106	Sharing using Ratio	Ratio	3			
107	Ratios, Fractions and Graphs	Ratio	3			
108	Increase/Decrease by a Percentage	Ratio	3			
109	Percentage Change	Ratio	3			
110	Reverse Percentage Problems	Ratio	3			
111	Simple Interest	Ratio	3			
112	Metric conversions	Geometry	3			
113	Problems on Coordinate Axes	Geometry	3			
114a	Surface Area of a Prism - Cuboids	Geometry	3			
114b	Surface Area of a Prism - Triangular Prisms	Geometry	3			
115	Volume of a Cuboid	Geometry	3			
116	Circle Definitions	Geometry	3			
117	Area of a Circle	Geometry	3			
118	Circumference of a Circle	Geometry	3			
119	Volume of a Prism	Geometry	3			
120	Angles and Parallel Lines	Geometry	3			
121	Angles in a Triangle	Geometry	3			
122	Properties of Special Triangles	Geometry	3			
123	Angle Sum of Polygons	Geometry	3			
124	Bearings	Geometry	3			
125	Experimental Probabilities	Probability	3			
126	Possibility Spaces	Probability	3			
127a	Venn Diagrams - Introduction	Probability	3			
127b	Venn Diagrams - Notation	Probability	3			
128a	Representing Data - Pie Charts	Probability	3			
128b	Representing Data - Stem and Leaf Diagrams	Probability	3			
129	Scatter Diagrams	Probability	3			
130a	Averages from a table - Basics	Probability	3			
130b	Averages from a table - Estimate for the Mean	Probability	3			
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			
CN	Topics	Area	Grade			
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			
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			
174	Introduction to Vectors	Geometry	5			