

GCSE Maths Self Assessment

Name: _____

Date: _____

Grade 1/2

Topic	Example(s)	Exam Questions	Solutions			
Addition and Subtraction	Revision	Addition and Subtraction	Solutions			
Multiplication and Division	Revision	Multiplication and Division	Solutions			
Rounding	Revision					
Estimating	Revision					
Powers and Roots	Revision	Powers and Square Roots	Solutions			
Factors and Multiples	Revision	Factors, Multiples and Primes	Solutions			
Fractions of an Amount	Revision	Fractions of an Amount	Solutions			
Fractions, Decimals and Percentages	Revision	Fractions, Decimals and Percentages	Solutions			
Negative Numbers	Revision	Negative Numbers	Solutions			
BIDMAS	Revision	BIDMAS	Solutions			
Simplifying Algebra	Revision	Collecting Like Terms	Solutions			
Angles	Revision	Angles	Solutions			
Area	Revision	Perimeter, Area and Volume	Solutions			
Perimeter	Revision					
Area of a Trapezium	Revision					
Averages	Revision	Mean, Median, Mode and Range	Solutions			
Frequency Polygons	Revision	Frequency Polygons	Solutions			
Stem and Leaf	Revision	Stem and Leaf	Solutions			
Bar Charts	Revision	Bar Charts	Solutions			
Pie Charts	Revision	Pie Charts	Solutions			

Grade 3

Topic	Example(s)	Exam Questions	Solutions			
Error Intervals	Revision	Error Intervals	Solutions			
Fractions	Revision	Fractions	Solutions			
Writing and Simplifying Ratio	Revision					
Ratio	Revision	Ratio	Solutions			
Proportion	Revision	Proportion Ingredients Questions	Solutions			
Percentages	Revision	Percentages	Solutions			
Percentage Change	Revision					
Exchange Rates	Revision	Exchange Rates	Solutions			
Best Buy Questions	Revision	Best Buys	Solutions			
Substitution	Revision	Substitution	Solutions			
Solving Equations	Revision					
Solving Equations with an Unknown on Both Sides	Revision	Solving Equations	Solutions			
Drawing Graphs	Revision	Drawing Graphs	Solutions			
Area and Circumference of Circles	Revision	Circles	Solutions			
Transformations		Rotations	Solutions			
		Reflections	Solutions			
		Enlargements	Solutions			
		Translations	Solutions			
		Mixed Transformations	Solutions			
Area of Compound Shapes	Revision	Area of Compound Shapes	Solutions			
Probability	Revision	Probability	Solutions			
Two Way Tables	Revision	Two Way Tables	Solutions			

Grade 4

Topic	Example(s)	Exam Questions	Solutions			
Compound Interest and Depreciation	Revision	Compound Interest and Depreciation	Solutions			
Indices	Revision	Indices	Solutions			
HCF and LCM	Revision	HCF, LCM	Solutions			

Functional Maths Questions		Functional Questions	Solutions			
Inequalities	Revision	Inequalities	Solutions			
Forming and Solving Equations	Revision	Forming and Solving Equations	Solutions			
Types of Sequences	Revision					
Generating Sequences	Revision					
Sequences (Nth Term)	Revision	Sequences (nth term)	Solutions			
Expanding and Factorising	Revision	Expand and Factorise	Solutions			
Pythagoras	Revision	Pythagoras	Solutions			
Angle Problems	Revision	Angles	Solutions			
Angles in Parallel Lines	Revision	Angles in Parallel Lines	Solutions			
Angles in Polygons	Revision	Angles in Polygons	Solutions			
Surface Area	Revision	Surface Area	Solutions			
Volume of Prisms	Revision	Volume of Prisms	Solutions			
Cylinders	Revision	Volume and Surface Area of Cylinders	Solutions			
Loci and Construction	Revision	Loci and Construction	Solutions			
Bearings	Revision	Bearings	Solutions			
Averages from Frequency Tables	Revision	Averages from Frequency Tables	Solutions			
Probability	Revision	Probability	Solutions			
Scatter Graphs	Revision	Scatter Graphs	Solutions			

Grade 5

Topic	Example(s)	Exam Questions	Solutions			
Writing a Ratio as a Fraction or Linear Function	Revision	Ratio Fraction Problems Ratio Problems 2	Solutions Solutions			
Direct and Inverse Proportion	Revision	Direct and Inverse Proportion	Solutions			
Reverse Percentages	Revision	Reverse Percentages	Solutions			
Standard Form	Revision	Standard Form	Solutions			
Speed and Density	Revision	Speed and Density	Solutions			
Changing the Subject of a Formula	Revision	Changing the Subject of a Formula	Solutions			
Expanding and Factorising Quadratics	Revision	Expanding and Factorising Quadratics	Solutions			
Solving Quadratics	Revision	Solving Quadratics	Solutions			
Drawing Quadratic Graphs	Revision	Drawing Quadratic Graphs	Solutions			
Drawing Other Graphs: Cubic/Reciprocal	Revision	Cubic/Reciprocal Graphs	Solutions			
Simultaneous Equations	Revision	Simultaneous Equations	Solutions			
Solving Simultaneous Equations Graphically	Revision	Solving Simultaneous Equations Graphically	Solutions			
Midpoint of a Line Segment	Revision					
Gradient of a Line	Revision	Gradient of a Line	Solutions			
Equation of a Line	Revision	Equation of a Line	Solutions			
Spheres and Cones	Revision	Spheres and Cones	Solutions			
Sector Areas and Arc Lengths	Revision	Sectors and Arcs	Solutions			
Similar Shapes (Lengths)	Revision	Similar Shapes (Lengths)	Solutions			
SOHCAHTOA (Trigonometry)	Revision	SOHCAHTOA	Solutions			
Exact trig values	Revision					
Vectors	Revision	Vectors	Solutions			
Probability Trees	Revision	Probability Trees	Solutions			
Venn Diagrams	Revision	Venn Diagrams	Solutions			

Grade 6

Topic	Example(s)	Exam Questions	Solutions			
Recurring Decimals to Fractions	Revision	Converting Recurring Decimals to Fractions	Solutions			
Fractional and Negative Indices	Revision	Fractional and Negative Indices	Solutions			
The Product Rule for Counting	Revision	The Product Rule for Counting	Solutions			
Repeated Percentage Change	Revision	Repeated Percentage Change	Solutions			
Expanding Triple Brackets	Revision	Expanding Triple Brackets	Solutions			
Parallel and Perpendicular Lines	Revision	Parallel and Perpendicular Lines	Solutions			
Length of a Line	Revision					
Inequalities on Graphs	Revision	Inequalities on Graphs	Solutions			

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

Grade 7

Topic	Example(s)	Exam Questions	Solutions			
Surds	Revision	Surds	Solutions			
Bounds	Revision	Bounds	Solutions			
Direct and Inverse Proportion	Revision	Direct and Inverse Proportion	Solutions			
Quadratic Formula	Revision	Quadratic Formula	Solutions			
Factorising Harder Quadratics	Revision	Factorising Harder Quadratics	Solutions			
Algebraic Fractions	Revision	Algebraic Fractions	Solutions			
Rearranging Harder Formulae	Revision	Rearranging Harder Formulae	Solutions			
Harder Graphs: Trig/Exponential	Revision	Harder Graphs: Trig/Exponential	Solutions			
Inverse and Composite Functions	Revision	Inverse and Composite Functions	Solutions			
Iteration	Revision	Solving Equations using Iteration	Solutions			
Finding the Area of Any Triangle	Revision	Finding the Area of Any Triangle	Solutions			
The Sine Rule	Revision	The Sine Rule	Solutions			
The Cosine Rule	Revision	The Cosine Rule	Solutions			
Congruent Triangles	Revision	Congruent Triangles	Solutions			
3d Pythagoras	Revision	3d Pythagoras	Solutions			
Histograms	Revision	Histograms	Solutions			
Venn Diagrams ("Given that" questions)	Revision	Venn Diagrams	Solutions			

Grade 8/9

Topic	Example(s)	Exam Questions	Solutions			
Quadratic Simultaneous Equations	Revision	Quadratic Simultaneous Equations	Solutions			
Transforming Graphs $y=f(x)$	Revision	Transforming Graphs $y=f(x)$	Solutions			
Proof	Revision	Proof	Solutions			
Completing the Square	Revision	Completing the Square	Solutions			
The Nth Term of a Quadratic Sequence	Revision	Quadratic Sequences	Solutions			
Quadratic Inequalities	Revision	Quadratic Inequalities	Solutions			
Velocity Time Graphs	Revision	Velocity Time Graphs	Solutions			
Proof of the Circle Theorems	Revision	Proof of the Circle Theorems	Solutions			
Perpendicular Lines and the equation of a tangent	Revision	Perpendicular Lines	Solutions			
Vectors Proof Questions	Revision	Vectors	Solutions			
Probability Equation Questions	Revision	Probability Equation Questions	Solutions			