







GCSE Maths Self Assessment




Name: _____ Date: _____

Grade 1/2




Topic	Exam Questions	Solutions			
Addition and Subtraction	Addition and Subtraction	Solutions			
Multiplication and Division	Multiplication and Division	Solutions			
Rounding	Rounding	Solutions			
Time	Time	Solutions			
Place Value	Place Value	Solutions			
Negative Numbers	Negative Numbers	Solutions			
Powers and Roots	Powers and Roots	Solutions			
BIDMAS	The Order of Operations	Solutions			
Factors and Multiples	Factors, Multiples and Primes	Solutions			
Writing, Simplifying and Ordering Fractions	Writing, Simplifying and Ordering Fractions	Solutions			
Coordinates	Coordinates	Solutions			
Pictograms	Pictograms	Solutions			

Topic	Exam Questions	Solutions			
Calculation Problems	Calculation Problems	Solutions			
Using a Calculator	Using a Calculator	Solutions			
Systematic Listing	Systematic Listing	Solutions			
Fractions of an Amount	Fractions of an Amount	Solutions			
Fractions, Decimals and Percentages	Fractions, Decimals and Percentages	Solutions			
Simplifying Algebra	Collecting Like Terms	Solutions			
Writing an Expression	Writing an Expression	Solutions			
Function Machines	Function Machines	Solutions			
Angles	Angles	Solutions			
Area and Perimeter	Area and Perimeter	Solutions			
Probability	Probability	Solutions			
Frequency Polygons	Frequency Polygons	Solutions			
Averages	Mean, Median, Mode and Range	Solutions			
Bar Charts	Bar Charts	Solutions			
Stem and Leaf	Stem and Leaf	Solutions			
Pie Charts	Pie Charts	Solutions			




Grade 3

Topic	Exam Questions	Solutions			
Error Intervals	Error Intervals	Solutions			
Fractions	Fractions	Solutions			
Estimating	Estimation	Solutions			
Writing and Simplifying Ratio	Writing and Simplifying Ratio	Solutions			
Ratio	Sharing Ratio	Solutions			
Proportion	Proportion Ingredients Questions	Solutions			
Percentages	Percentages	Solutions			
Percentage Change	Percentage Change	Solutions			
Exchange Rates	Exchange Rates	Solutions			
Conversions and Units	Conversions and Units	Solutions			
Scale Drawings	Scale Drawings	Solutions			
Best Buy Questions	Best Buys	Solutions			
Substitution	Substitution	Solutions			
Solving Equations	Solving Equations	Solutions			
Drawing Graphs	Drawing Graphs	Solutions			
Area and Circumference of Circles	Circles	Solutions			
Transformations	Rotations Reflections Enlargements Translations Mixed Transformations	Rotations Solutions Reflections Solutions Enlargements Solutions Translations Solutions Mixed Transformations Solutions			
Area of Compound Shapes	Area of Compound Shapes	Solutions			
Frequency Trees	Frequency Trees	Solutions			
Two Way Tables	Two Way Tables	Solutions			

Grade 4




Topic	Exam Questions	Solutions			
Compound Interest and Depreciation	Compound Interest and Depreciation	Solutions			
Indices	Indices	Solutions			
Prime Factors, HCF and LCM	HCF, LCM	Solutions			
Real Life and Distance Time Graphs	Real Life Graphs	Solutions			
Inequalities	Inequalities	Solutions			
Forming and Solving Equations	Forming and Solving Equations	Solutions			
Sequences (Nth Term)	Sequences (nth term)	Solutions			
Expanding and Factorising	Expand and Factorise	Solutions			
Pythagoras	Pythagoras	Solutions			
Angles in Parallel Lines	Angles in Parallel Lines	Solutions			
Angles in Polygons	Angles in Polygons	Solutions			
Surface Area	Surface Area	Solutions			
Volume of a Prism	Volume of Prisms	Solutions			
Cylinders	Volume and Surface Area of Cylinders	Solutions			
Loci and Construction	Loci and Construction	Solutions			
Bearings	Bearings	Solutions			
Plans and Elevations	Plans and Elevations	Solutions			
Averages from Frequency Tables	Averages from Frequency Tables	Solutions			
Probability	Probability and Relative Frequency	Solutions			
Scatter Graphs	Scatter Graphs	Solutions			

Grade 5




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

All content beyond this point is for the higher tier only.




Grade 6

Topic	Exam Questions	Solutions			
Recurring Decimals to Fractions	Converting Recurring Decimals to Fractions	Solutions			
Fractional and Negative Indices	Fractional and Negative Indices	Solutions			
The Product Rule for Counting	The Product Rule for Counting	Solutions			
Repeated Percentage Change	Repeated Percentage Change	Solutions			
Expanding Triple Brackets	Expanding Triple Brackets	Solutions			
Parallel and Perpendicular Lines	Parallel and Perpendicular Lines	Solutions			
Inequalities on Graphs	Inequalities on Graphs	Solutions			
Similar Shapes (Area and Volume)	Similar Shapes (Area and Volume)	Solutions			
Enlarging with Negative Scale Factors	Enlarging with Negative Scale Factors	Solutions			
Circle Theorems	Circle Theorems	Solutions			
Cumulative Frequency	Cumulative Frequency	Solutions			
Box Plots	Box Plots	Solutions			

Grade 7

Topic	Exam Questions	Solutions			
Surds	Surds	Solutions			
Bounds	Bounds	Solutions			
Direct and Inverse Proportion	Direct and Inverse Proportion	Solutions			
Quadratic Formula	Quadratic Formula	Solutions			
Factorising Harder Quadratics	Factorising Harder Quadratics	Solutions			
Algebraic Fractions	Algebraic Fractions	Solutions			
Rearranging Harder Formulae	Rearranging Harder Formulae	Solutions			
Trigonometric and Exponential Graphs	Harder Graphs: Trig/Exponential	Solutions			
Inverse and Composite Functions	Inverse and Composite Functions	Solutions			
Iteration	Solving Equations using Iteration	Solutions			
Finding the Area of Any Triangle	Finding the Area of Any Triangle	Solutions			
The Sine Rule	The Sine Rule	Solutions			
The Cosine Rule	The Cosine Rule	Solutions			
Congruent Triangles	Congruent Triangles	Solutions			
3d Pythagoras and Trigonometry	3d Pythagoras and Trigonometry	Solutions			
Histograms	Histograms	Solutions			
Conditional Probability	Conditional Probability	Solutions			

Grade 8/9

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