



HIGHER MATHS REVISION CHECKLIST 2017+ (Grades 9 – 4)

Geometry and Measures

Title	Estimated Grade	Confidence level   	Revised on...	Confidence level   	Revised on...	Confidence level   
Circle theorems	8					
Vector arguments and proof	8					
Area of a triangle	7					
Cosine Rule	7					
Pythagoras and trig 2D and 3D	7					
Sine Rule	7					
Combined transformations	6					
Congruence and Similarity	6					
Standard trigonometric ratios	6					
Arc lengths and sectors	5					
Derive triangle results	5					
Enlargements and negative SF	5					
Loci	5					
Pythagoras	5					
Similarity and Congruence	5					
Standard constructions	5					
Surface Area	5					
Trigonometric ratios	5					
Volume	5					
Alternate and corresponding angles	4					
Area of a circle	4					
Areas of composite shapes	4					
Areas of triangles, trapezia and parallelograms	4					
Bearings	4					
Circle terminology	4					
Circumference of a circle	4					
Congruent triangles	4					
Enlargements and fractional SF	4					
Perimeter of 2D shapes	4					
Plans and elevations	4					
Polygons	4					
Solve geometrical problems	4					
Vector arithmetic	4					
Volume of prisms	4					





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Algebra

Title	Estimated Grade	Confidence level    	Revised on...	Confidence level    	Revised on...	Confidence level    
Approximate solutions to equations using iteration.	9					
Equation of a circle	9					
Equation of a tangent	9					
Algebra and Proof	8					
Gradients and area under a graph	8					
Graphs of trigonometric functions	8					
Quadratic equations (completing the square)	8					
Composite functions	7					
Expand the product of two or more binomials	7					
Factorising difficult quadratic expressions	7					
Geometric Sequences	7					
Graphs of exponential functions	7					
Quadratic equations (needing re-arrangement)	7					
Quadratic equations (quadratic formula)	7					
Real-life exponential graphs	7					
Represent quadratic inequalities	7					
Simultaneous equations (non-linear)	7					
Solve quadratic inequalities	7					
Translations and reflections of a function	7					
Turning points & completing the square	7					
Algebraic fractions	6					
Identifying parallel lines	6					
Inverse functions	6					
Linear inequalities in two variables	6					
nth term of a quadratic sequence	6					
Quadratic equations (factorisation)	6					
Quadratic equations (graphical methods)	6					
Represent linear inequalities	6					
Simultaneous equations (linear)	6					
Algebraic argument	5					
Algebraic terminology	5					





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Algebra cont...

Title	Estimated Grade	Confidence level   	Revised on...	Confidence level   	Revised on...	Confidence level   
Cubic and Reciprocal graphs	5					
Deduce quadratic roots algebraically	5					
Derive an equation	5					
Equation of a line	5					
Expand the product of two binomials	5					
Factorising quadratic expressions	5					
Fibonacci, quadratic and simple geometric sequences	5					
Graphical solution to equations	5					
Inequalities on number lines	5					
Linear equations	5					
Quadratic graphs	5					
Reciprocal real-life graphs	5					
Simplify indices	5					
Simplify surds	5					
Solve linear inequalities in one variable	5					
Writing formulae and expressions	5					
Changing the subject	4					
Collecting like terms	4					
Expressions	4					
Factorise single bracket	4					
Finding the equation of a line	4					
Graphs of linear functions	4					
Graphs of quadratic functions	4					
Linear equations one unknown	4					
Multiplying single brackets	4					
Non-standard real life graphs	4					
nth term of a linear sequence	4					
Number machines	4					
Substitution	4					
Using "y = mx + c"	4					





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Statistics

Title	Estimated Grade	Confidence level 	Revised on...	Confidence level 	Revised on...	Confidence level
Boxplots	6					
Cumulative frequency	6					
Histograms with unequal class widths	6					
Quartiles and Interquartile Range	6					
Histograms with equal class widths	5					
Scatter graphs	5					
Comparing data using graphs	4					
Comparing Distributions	4					
Correlation	4					
Population	4					
Sampling	4					
Scatter Diagrams	4					
Time series	4					

Probability

Title	Estimated Grade	Confidence level 	Revised on...	Confidence level 	Revised on...	Confidence level
Conditional Probability	7					
Probability of dependent events	5					
Probability of independent events	5					
Mutually exclusive sum	4					
Relative Frequency	4					
Tables and Grids	4					
Theoretical Probability	4					
Unbiased Samples	4					
Venn Diagrams	4					





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Number










Title	Estimated Grade	Confidence level 	Revised on...	Confidence level 	Revised on...	Confidence level
Surds	8					
Index Laws (negative and fractional)	7					
Product rule	7					
Recurring Decimals	7					
Upper and lower bounds	7					
Finance 1	6					
Powers and Roots	6					
Product of prime factors	6					
Using Pi	6					
Calculating with fractions	5					
Error intervals	5					
Index Laws	5					
Limits of accuracy	5					
Adding and subtracting fractions	4					
Checking calculations	4					
Compound measures	4					
Converting metric units	4					
Estimation	4					
Fractions and percentages	4					
Fractions and ratio problems	4					
Interpret calculator displays	4					
LCM and HCF	4					
Multiples and factors	4					
Multiplying fractions	4					
Operations	4					
Order of operations	4					
Powers	4					
Rounding	4					
Standard Form	4					
Terminating decimals and fractions	4					





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Ratio, Proportion and rates of change

Title	Estimated Grade	Confidence level   	Revised on...	Confidence level   	Revised on...	Confidence level   
Gradients and the rate of change (non-linear functions)	9					
General iterative processes	7					
Direct and inverse proportion	6					
Compound Units	5					
Gradient & the rate of change (linear functions)	5					
Growth and decay	5					
Interpret Proportion	5					
Percentage change	5					
Problems with compound units	5					
Scale factors and similarity	5					
Simple Interest and Financial Maths	5					
Solve Proportion Problems	5					
Compare Fractions, Decimals and Percentages	4					
Compare lengths, area, volume	4					
Comparing quantities as a ratio	4					
Division of a quantity as a ratio	4					
Express one quantity as a % of another	4					
Percentage change	4					
Problems involving ratio	4					
Proportion and ratio	4					
Ratio and fractions	4					
Ratio Sharing	4					

Exam details:

GCSE Mathematics A - Higher

Exam Dates:

Paper 1 (non-calc) – Usually final teaching week in May

Paper 2 (calc) – Usually first teaching week in June

Paper 3 (calc) – Usually second teaching week in June

All papers 90 mins each

