



# Paper 3 Key Topics

## AQA Higher

In this document you will find lists of topics to help you focus your revision for Paper 3. To do this I have carefully analysed the topics that appeared in your Paper 1/2 but also the trends from all previous exam papers.

Each topic has been rated from 1 star to 5 stars. The more stars I have given it, the more likely I believe it could appear in Paper 3.

**This does not guarantee the topics with more stars will appear or those with low stars will not** but it may help you to prioritise topics for revision.

Be sure to subscribe to my **YouTube** channel and check the website to not miss out on resources. I will write more practice papers for each tier for Edexcel and AQA to help you revise. The dates for these are on the website.

- 1<sup>st</sup> Class Maths



<< Most likely topics to appear



<< Least likely topics to appear



% of amount Increase/Decrease by %	Pythagoras	Complete the Square
Speed, Distance, Time	Probability of Successive events	Sine Rule/Cosine Rule
Index Laws	Bounds	Cumulative Frequency
Types of number (Squares, primes, cubes, odd, even, triangular)	Product Rule for Counting	Functions
HCF/LCM (could be algebraic)	$\frac{1}{2}ab\sin C$	Histograms
Density, Mass, Volume	Algebraic Fractions	Speed Time Graphs



Form and Solve Equations	Transformations (Could involve invariant points)	Properties of Triangles/Quadrilaterals
Share into ratio Application of Ratio	Multiple Ratio Problem Solve (often algebraic)	Relate Ratio to Fraction or Percentage
Sequences	Parallel And Perpendicular Lines	Volume of 3D Shapes



Standard Form	Factorising	Converting Fractions, Decimals, Percentages
Direct Proportion	Interpret Pie Charts	Geometric Proof
SOHCAHTOA	Simplify Algebraic	Non Linear Simultaneous Equation
Estimate gradient at a point using tangent	Tree Diagram	Quadratic Inequalities
Angles in Parallel Lines	Write as a %/Write as Frac	Similar Area/Volume
Angles in Polygons	3D Trig/Pythagoras	Similar Lengths
Bearings and Compass Directions	Algebraic Proof	Transformations of Graphs
Constructions and Loci	Circle Theorems	Column Vectors
Distance Time Graphs		



Perimeter	Use of calculator	Averages (and range)
% Profit	Two way table	Compound Interest
Changing the Subject	Types of Graphs (Cubic, Reciprocal, exponential etc)	Area (triangle, rectangle, parallelogram, trapezium)
Congruence	Venn Diagrams	Evaluate Indices/roots
General Iterative Processes	Volume Problem solve	Fraction Operations
Imperial Unit Conversions	Formal Direct/Inverse Proportion	Multiply/Divide Decimals
Quadratic Graphs	Circles and Sectors	Product of Primes
Relative Frequency	Form Algebraic Equation/Inequality/Expression From Context	Inequality (List values)
Reverse %	Frequency Trees	Inequality Regions
Scatter Diagrams	Gradients, Intercepts, $y = mx + c$	Interpret Ratio
Solve Linear Equations	Linear Inequalities	Inverse Proportion (context)
Solve Quadratic Equation	Linear Simultaneous Equations	Midpoint of line or between coordinates
Substitution	Convert Units of area/volume	Time Series Chart
Surface Area of 3D shapes	Coordinates problem solving	Plans and Elevations
Types of data (discrete, continuous)	Draw additional line onto graph to solve equation	Population Density
Use of probability to estimate/work out exact amount	Draw Straight Line Graphs	Pressure, Force, Area
Write as ratio [includes n:1]	Equation of tangent to circle	Quartiles
Number closest to another	Expand/Simplify	Reciprocals
Order Numbers	Faces, edges, vertices	Simultaneous Equations Graphically



Error Intervals	Surds	Iteration (equations)
% Increase/Decrease	Box Plots	Metric Unit Conversions
Angle Facts	Exact Trig	Parts of a Circle
Identity Solve to find values	Expand Triple Brackets	Quadratic Formula
Approximations	Fraction of Amount	Use of scales (could be on map)
Recurring Decimals (to Fractions)	Inequality Diagram - Number lines	Vectors