



# Paper 3 Key Topics

## Edexcel 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



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Bounds	Reverse %	Sine Rule
Form and Solve Equation	Direct Proportion e.g. best buys	$\frac{1}{2}ab\sin C$
Quadratic Graphs	Formal Direct/Inverse Proportion (incl graphs + table of values)	Transformations (Could involve invariant points)
Parallel/Perpendicular Lines	Speed, Distance, Time	Venn Diagrams
Multiple Ratio Problem Solve	Density, Mass, Volume	Cumulative Frequency



Index Laws	Area problem solving
Types of Graphs (not trig)	Rectilinear areas (rectangle, triangle, parallelogram, trapezium)
Write as ratio	Probability (Tree Diagram or Successive Events)



Circle (area/circumference)	Standard Form	Change Subject
Pythagoras	Gradient, intercepts, Find or use $y = mx + c$	Form Algebraic Equation/Inequality From Context
Use of calculator + round answer	Equation of tangent to circle	Linear Simultaneous Equations
Product of Primes	Sequences	Non Linear Simultaneous Equation
HCF/LCM (more likely contextual)	% of amount/Increase/Decrease by %	Iteration (equations)
Estimation	Volume of 3D Shape (includes prism/cylinder)	Algebraic Proof
Factorise	Similar Lengths	Speed Time Graphs
Averages from a table	SOHCAHTOA	Frequency Polygons





Order Numbers	Solve Quadratic Equation	Use of scales on a map
Reciprocals	Sim Equations Graphically	Fraction of Amount
Money problems	Draw Straight Line Graph	% Profit or %change [find the %]
Error Intervals	Distance Time Graph (usually calculate speed)	Write as a %/Write as Frac
Product Rule for Counting	Draw Line onto to graph to solve equation	Compound Interest (Repeated % change)
Simplify Algebraic Expressions	Coordinates problem solve (can include ratio)	Perimeter
Substitution	Midpoint of line	Surface Area 3D shape
Expand/Simplify	Functions	Volume Problem solve
Inequality (List values)	Relate Ratio to Fraction	Similar Area/Volume
Inequality Diagram	Currency/Unit Conversions	Angle Facts e.g. angles in triangle
Bearings	Convert Units of area/volume	Fraction Operations
Angles in Parallel Lines	Geometric Proof (Can include Ctheorems)	Constructions
Angles in Polygons	Identify Congruent Triangles	Column Vectors
Circle Theorems	Plans and Elevations	Two way tables
Pie Chart (Interpret)	Criticise Chart	Quartiles



Multiply/Divide Decimals	Inequality Regions	Transformations of Graphs
Recurring Decimals to Fractions	Quadratic Inequality	Box Plots
Surds	Solve Linear	Inverse Proportion (context)
Expand Triple Brackets	Quadratic Formula (May also be embedded elsewhere)	Pressure, Force, Area
Linear Inequality	Algebraic Fractions	General Iterative Processes
Scatter Diagrams	Complete the Square (incl turning point)	Cosine Rule
Histograms	Estimate gradient at a point using tangent	3D Trig/Pythagoras
Capture, re-capture	Exact Trig	Vectors



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