



# Paper 3 Key Topics

## Edexcel Higher

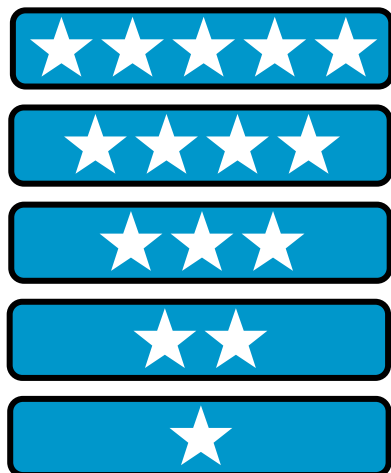
In this document you will find lists of topics to help you focus your revision for Paper 3. To do this I have carefully analysed the topics that appeared in your Paper 1/2 but also the trends from all previous exam papers.

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.

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



<< Most likely topics to appear

<< Least likely topics to appear



Average	Types of Graphs e.g. trig, reciprocal	Compound Interest (Repeated % change)
Error Intervals	Transformations of Graphs	Direct Proportion
Recurring Decimals to Fractions	Multiple Ratio Problem Solving	General Iterative Processes
Change Subject	Share into ratio Application of Ratio	Circle (area/circumference) and Sectors (Area/Arc Length)
Quadratic Inequalities	% of amount Increase/Decrease by %	Surface Area 3D shape
Complete the Square	Reverse %	HCF/LCM
Cosine Rule	$\frac{1}{2} ab \sin C$	SOHCAHTOA/Pythagoras



Index Laws	Write as ratio	Area problem solve (Could be surface area)
Algebraic Fractions (probably solving equation)	Fraction of Amount	Transformations (unlikely enlargements)



Product of Primes	Factorising	Algebraic Proof
Standard Form	Linear Inequalities	Speed Time Graphs
Surds	Inequality Regions	Sequences
Substitution (basic)	Frequency Polygon	Probability Tree Diagrams
Expand/Simplify	Sim Equations Graphically	Speed, Distance, Time
Geometric Proof (Can include Circle theorems)	Iteration (equations)	Similar Lengths



Order Numbers	Quadratic Graphs	Write as a %/Write as Frac
Reciprocals	Distance Time Graph (usually calculate speed)	Direct/Inverse Proportion ( $y = kx$ etc)
Draw Straight Line Graph	Draw Line onto to graph to solve equation	Perimeter
Bounds	Coordinates problem solve	Volume Problem solve
Simplify Expressions	Midpoint of line	Similar Area/Volume
Inequality (List values)	Gradient, intercepts, Find or use $y = mx + c$	Angle Facts
Inequality Diagrams	Parallel/Perpendicular Lines	Bearings
Solve Linear Equation	Estimate gradient at a point using tangent	Angles in Parallel Lines
Solve Quadratic Equation	Functions	Circle Theorems
Quadratic Formula	Relate Ratio to Fraction	Identify Congruent Triangles
Linear Simultaneous Equations	Convert Units of area/volume	Plans and Elevations
Non Linear Simultaneous Equation	Use of scales on a map	Constructions/Loci
Column Vectors	% Profit or %change	Capture-recapture
Cumulative Frequency	Quartiles	Interpret Pie Charts



Multiply/Divide Decimals	Currency/Unit Conversions	Vectors
Fraction Operations	Density, Mass, Volume	Probability (Successive Events – no tree diagram)
Use of calculator + round answer	Pressure, Force, Area	Venn Diagrams
Estimation	Area (rectangle, triangle, parallelogram, trapezium)	Box Plots
Product Rule for Counting Number of outcomes	Volume of 3D Shape	Scatter Diagrams
Expand Triple Brackets	Angles in Polygons	Histograms
Form and Solve Equation	Sine Rule	Exact Trig
Equation of tangent to circle	3D Trig/Pythagoras	