



# 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 topics frequencies 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 based on previous frequencies.

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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Error Intervals	Complete the Square	% of amount Increase/Decrease by %
Bounds	Vectors	Venn Diagrams
Change Subject (subject once or twice)	Transformations of Graphs	Compound Interest (Repeated % change)
Form and Solve Equations	Sequences	Cumulative Frequency
Form Algebraic Equation/Inequality From Context	Problems with multiple ratios	Speed, Distance, Time
Surface Area 3D shapes	Circle Theorems	$\frac{1}{2}ab\sin C$
Volume of 3D Shapes	Geometric Proof	



Index Laws	Write as a %/Write as Fraction	Circles (probably circumference not area)
Factorising (single or double bracket)	Area of shapes (probably not a triangle)	Sectors (Area/Arc Length)
Algebraic Fractions	Transformations (Could involve invariant points)	Reverse %
Pythagoras	Parallel/Perpendicular Lines	Direct Proportion (in context) e.g. best buys, estimating from sample



Use of calculator + round answer	Solve Quadratic Equation	Gradient, intercepts, and $y = mx + c$
Standard Form	Linear Simultaneous Equations	Equation of tangent to circle
Estimation	Non-Linear Simultaneous Equation	% Profit or %change
Surds	Simultaneous Equations Graphically	Inverse Proportion in context
Substitution	Iteration (equations)	Pressure, Force, Area
Scatter Diagrams	Types of Graphs e.g. trig graphs, reciprocal (not likely exponential or equation of circle)	Angles in Parallel Lines
Averages (and range) – more likely from tables	Frequency Polygon	SOHCAHTOA





Capture, re-capture	Inequality Diagrams	Functions
Reciprocals	Quadratic Formula	Write as ratio
Money problems	Draw a Straight Line Graph	Relate Ratio to Fraction
Simplify Algebraic Expressions	Quadratic Graphs	Currency/Unit Conversions
Expand/Simplify Brackets	Distance Time Graphs	Convert Units of area/volume
Inequality (Listing values)	Two way tables	Use of scales on a map
Bearings	Coordinates problem solving	Formal Direct/Inverse Proportion
Angles in Polygons	Midpoint of line	Area problem solving
Identify Congruent Triangles	Volume Problem solving	Perimeter
Plans and Elevations	Similar Area/Volumes	Quartiles
Column Vectors	Angle Facts	Pie Charts



Product of Primes	Solve Linear	Similar Lengths
HCF/LCM	Algebraic Proof	Sine Rule
Recurring Decimals to Fractions	Speed Time Graph (Acceleration, Area Under, Interpret)	Cosine Rule
Product Rule for Counting/Number of outcomes	Share into ratio/Application of Ratio	3D Trig/Pythagoras
Expand Triple Brackets	Fraction of Amount	Constructions
Linear Inequality	Density, Mass, Volume	Probability (Tree Diagram or Successive Events)
Inequality Regions	General Iterative Processes	Box Plots
Quadratic Inequality		Histograms



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