# Paper 2 Key Topics

# AQA Higher

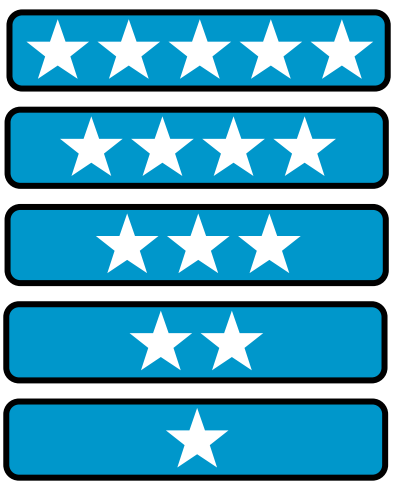
**In this document you will find lists of topics and how important I think they are for you preparing for Paper 2. I have looked carefully at Paper 1 and all of the past papers to analyse how often topics appear.**

**Each topic has been rated from 1 star to 5 stars. Topics that are more likely based on past paper trends and what was already in Paper 1 are given more stars. 5 stars are the most likely to appear and 1 star topics are the least likely to appear. 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.**

**Since there are still 2 papers left, many of the topics could appear on Paper 3 instead or as well Paper 2. I will do this again after Paper 2 to help you focus revision for Paper 3.**

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

**- 1st Class Maths**



<< Most likely topics to appear

<< Least likely topics to appear

| | |
|---|---|
| Sequences | Volume of 3D Shape (includes prism/cylinder) |
| Increase or Decrease by a Percentage | SOHCAHTOA |
| Proportionality e.g y ∝ x | Averages (and range) |

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|---|---|---|
| Form and Solve Equations | Gradients, Intercepts, y = mx + c | Speed, Distance, Time |
| Substitution | Functions | Rectilinear Area |
| Bounds | Compound Interest (Repeated % change) | Use of probability to estimate |
| Types of Graphs (Cubic, Reciprocal, exponential etc) | Share into Ratio | Histograms |
| Venn Diagrams | | |

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|---|---|---|
| Types of number (Squares, primes, cubes, triangular) | Change the Subject | Sine Rule |
| Standard Form | Iteration | Cosine Rule |
| HCF/LCM | Write as a %/Write as Frac | Area using 1/2absin(C) |
| Factorising (Quadratic/Single) | Direct Proportion (Best buys/recipes) | 3D Trig/Pythagoras |
| Solve Quadratic Equation | Reverse % | Transformations |
| Error Intervals | Write as ratio [includes n:1] | Constructions and Loci |
| Product Rule for Counting/Number of outcomes | Density, Mass, Volume | Probability of Successive events |
| Simplify Algebraic Expressions | Bearings | Finding probabilities |
| Algebraic Proof | Circles and Sectors | Relative Frequency |
| Algebraic Fractions | Pythagoras | Box Plots |
| Speed Time Graphs | Vectors | Tree Diagrams |
| Expand/Simplify | Circle Theorems | Cumulative Frequency |

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|---|---|---|
| Index Laws | List values for an inequality | Use of scales (could be on map) |
| Use of calculator | Inequality Diagram (Number Line) | Convert Units of area/volume |
| Money problems | Quadratic Inequalities | Faces, edges, vertices |
| Form Algebraic Equation/Formula | Draw Straight Line Graph | Angles in Parallel Lines |
| Quadratic Graphs | Midpoint of line or between coordinates | Surface Area 3D shape |
| Distance Time Graph | Draw additional line onto graph to solve equation | Volume Problem solve |
| Solve Linear Equations | Coordinates problem solving | Column Vectors |
| Identities | Transformations of Graphs | Geometric Proof |
| % Increase/Decrease (find the %) | Quadratic Formula | Plans and Elevations |
| Order Numbers | % Profit | Similar Lengths |
| Estimation/Approximations | Inverse Proportion in Context | Similar Area/Volume |
| Reciprocals | Multiple Ratio Problem Solve | Angles in Polygons |
| Non Linear Simultaneous Equations | Relate Ratio for Fraction or Percentage | Scatter Diagrams |
| Solve Simultaneous Equations Graphically | Pressure, Force, Area | Two way tables |
| Expand Triple Brackets | Population Density | Frequency Trees |
| Use a tangent to find gradient of a curve. | General Iterative Processes | Types of data (discrete, continuous) |
| Equation of tangent to circle | Imperial Unit Conversions | Sampling |
| Inequality Regions | Metric Unit Conversions | Pie Charts |

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|---|---|---|---|
| Multiply/Divide Decimals | Product of Primes | Parallel And Perpendicular Lines | Basic Angle Facts |
| Fraction Operations | Evaluate Indices/roots | Complete the Square | Properties of Triangles/Quadrilaterals |
| Simultaneous Equations | Recurring Decimals | Fraction of Amount | Exact Trig |
| Linear Inequality | Surds | Congruence | Quartiles |