



# 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



|                           |                       |                         |
|---------------------------|-----------------------|-------------------------|
| Standard Form             | Algebraic Fractions   | Multiple Ratio Problems |
| Functions                 | Perpendicular Lines   | Compound Interest       |
| Speed, Distance, Time     | $\frac{1}{2}ab\sin C$ | Density, Mass, Volume   |
| Change the Subject        | Sine Rule             | Bounds                  |
| Product Rule for Counting | Cosine Rule           |                         |



|                              |  |   |
|------------------------------|--|---|
| Index Laws                   | Probability (Tree Diagram or Successive Events)  | Averages (and range) – More likely from a table |
| Write as ratio               | Factorise  | Circle Theorems                                 |
| Circles (area/circumference) | Transformations (Could involve invariant points) | Box Plots                                       |



|                                    |   |   |
|------------------------------------|---|---|
| SOHCAHTOA                          | Linear Inequalities                             | Distance Time Graph (usually calculating speed) |
| % of amount Increase/Decrease by % | Form Algebraic Equation/Inequality From Context | Equation of tangent to circle                   |
| Form and Solve Equations           | Simultaneous Equations Graphically              | General Iterative Processes                     |
| Expand/Simplify                    | Sequences                                       | 3D Trig/Pythagoras                              |
| % Profit or %change                | Inverse Proportion (in context)                 | Solve Quadratic Equation                        |
| Pressure, Force, Area              | Surface Area of 3D shapes                       | Iteration (equations)                           |
| Volume of 3D Shape                 | Angles in Parallel Lines                        | Algebraic Proof                                 |
| Angles in Polygons                 | Pythagoras                                      | HCF/LCM (most likely contextual)                |
| Frequency Polygon                  | Scatter Diagrams                                |   |



|                                    |                               |  |
|------------------------------------|-------------------------------|--|
| Use of calculator + round answer   | Area problem solving          | Inequality (List values)                     |
| Reciprocals                        | Perimeter                     | Quadratic Formula                            |
| Inequality Diagram                 | Angle Facts                   | Draw Line onto to graph to solve an equation |
| Solve Linear Equations             | Bearings                      | Midpoint of line                             |
| Linear Simultaneous Equations      | Plans and Elevations          | Write as a %/Write as Frac                   |
| Draw Straight Line Graphs          | Constructions                 | Volume Problem solve                         |
| Coordinates problem solving        | Column Vectors                | Two way tables                               |
| Gradient, intercepts, $y = mx + c$ | Types of Graphs               | Interpret Pie Charts                         |
| Relate Ratio to Fraction           | Order Numbers                 | Capture, re-capture                          |
| Currency/Unit Conversions          | Money problem                 | Criticise Chart                              |
| Convert Units of area/volume       | Simplify Algebraic Expression | Use of scales on a map                       |



|  |  |                                  |
|--|--|----------------------------------|
| Error Intervals  | Multiply/Divide Decimals                   | Transformations of Graphs        |
| Quadratic Inequality                                   | Histograms                                 | Quartiles                        |
| Venn Diagrams  | Exact Trig                                 | Inequality Regions               |
| Areas of rectangle, triangle, parallelogram, trapezium | Quadratic Graphs                           | Complete the Square              |
| Fraction of Amount                                     | Formal Direct/Inverse Proportion           | Vectors                          |
| Product of Primes                                      | Similar Area/Volume                        | Speed Time Graphs                |
| Substitution   | Geometric Proof                            | Estimation                       |
| Share into ratio/Application of Ratio                  | Cumulative Frequency                       | Recurring Decimals to Fractions  |
| Fraction Operations                                    | Estimate gradient at a point using tangent | Expand Triple Brackets           |
| Similar Lengths  | Identify Congruent Triangles               | Non Linear Simultaneous Equation |
| Reverse %  | Surds                                      |                                  |

