



# Paper 3 Key Topics

## AQA Foundation

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



@1stclassmaths



|                                     |   |                 |
|-------------------------------------|---|-----------------|
| Listing Outcomes                    | Percentage of amount Increase/Decrease by % | Symmetry        |
| Use of calculator                   | Speed, Distance, Time                       | Transformations |
| Draw/Use Straight Line Graph        | Pythagoras                                  | Venn Diagrams   |
| Fractions, decimals and percentages | Perimeter                                   | Pie Charts      |



|                                |  |                                  |
|--------------------------------|--|----------------------------------|
| Square roots, Cube roots       | Factorising (including quadratics)       | Area of Shapes                   |
| Simplify Algebraic Expressions | Solve Linear Equations                   | Column Vectors                   |
| Substitution                   | Fraction of Amount                       | Probability                      |
| Sequences                      | Share into ratio<br>Application of Ratio | Averages - From Diagram or Table |



|  |  |   |
|--|--|---|
| Use of inequality signs                                    | Gradients, Intercepts, $y = mx + c$                  | Faces, Edges, Vertices                                    |
| Order of Operations  | Coordinates  | Congruent Shapes  |
| Order Numbers  | Form and Solve Equations                             | Angle Facts   |
| Negative Numbers   | Time Calculations                                    | Angles in a Triangle<br>Properties of triangles           |
| Types of Number (Square, Cube, Prime etc) + even/odd       | % Profit or %change                                  | Angles in a Quadrilateral<br>Properties of quadrilaterals |
| Linear Inequalities  | Write as a %/Write as Fraction                       | Angles in Parallel Lines                                  |
| Index Laws   | Direct Proportion                                    | Surface Area 3D shape                                     |
| Place Value  | Direct/Inverse Proportion<br>Graphs/Tables/Equations | Circles and Sectors                                       |
| Money problem (Deposits, change given, total cost etc)     | Reverse %  | Plans and Elevations                                      |
| Number Machines  | Compound Interest                                    | Angles in Polygons  |
| Form Algebraic Equation/Inequality/Expression From Context | Relative Frequency                                   | Constructions and Loci                                    |
| Quadratic Graphs   | Scale Drawing  | Scatter Diagrams  |
| Expression, Equation, Formula, Identity, Term, Inequality  | Metric Units   | Probability   |
| Distance Time Graphs                                       | Name Shape   |   |



|  |                                       |   |
|--|---------------------------------------|---|
| Bearings                                   | Equivalent Calculations               | Inequality (List values)                            |
| Measure Line/Angle                         | Equivalent fraction/Simplify Fraction | Inequality Diagram                                  |
| Identify Parallel/Perpendicular Lines      | Fraction Operations                   | Vertical and Horizontal Lines (and their equations) |
| Parts of a Circle                          | Order Fractions                       | Midpoint of line                                    |
| Volume of 3D Shapes                        | Coordinates problem solving           | Show lines are Parallel                             |
| Area problem solving                       | Factors and Multiples                 | Identities  |
| Volume Problem solving                     | Product of Primes                     | Simple Interest                                     |
| Expand/Simplify (includes double brackets) | HCF/LCM                               | Relate Ratio for Fraction/Percentage                |
| Sample Space Diagrams                      | Error Intervals - maximum/minimum     | Pressure, Force, Area                               |
| Averages/Mean Problem Solve                | Rounding                              | Population Density                                  |
| Two way tables                             | Approximations                        | Sampling  |
| Set notation                               | Standard Form                         | Use of scales on a map or a ratio                   |
| Bar Charts                                 | Reciprocals                           | Convert Units of area/volume                        |
| Tally Charts                               | Simultaneous Equations Graphically    | Bank Statements                                     |
| Vertical Line Graphs                       | Types of Graphs (Cubic, Reciprocal)   | Simultaneous Equations                              |
| Types of data (discrete, continuous)       |                                       |   |



|                              |                                     |                                  |
|------------------------------|-------------------------------------|----------------------------------|
| Multiply/Divide Decimals     | Write as ratio (including form 1:n) | Exact Trig Values                |
| Change Subject/Rearrangement | Interpret Ratios                    | Similar Lengths                  |
| Solve Quadratic Equation     | Density, Mass, Volume               | Tree Diagrams                    |
| Inverse Proportion (context) | Compass Directions                  | Averages (and range) from a list |
| Conversion Graphs            | SOHCAHTOA                           | Frequency Trees                  |
| Simplify Ratio               | Time Series                         | Pictograms                       |



@1stclassmaths