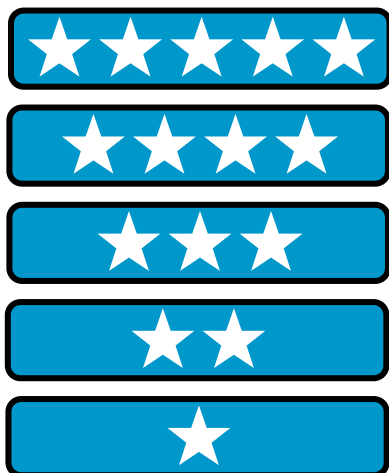# Paper 3 Key Topics

## Edexcel Foundation

In this document you will find lists of topics and how important I think they are for you preparing for Paper 3. I have looked carefully at Paper 1/2 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.

Be sure to subscribe to my **YouTube** channel and check the website to not miss out on resources.

**- 1st Class Maths**

★★★★★     << Most likely topics to appear

★★★★

★★★

★★

★     << Least likely topics to appear

★★★★★

| Place Value | Circles and Sectors | Fraction/Decimal/% Conversions |
|---|---|---|
| Error Intervals | Sequences (term-to-term and nth term) | Order Numbers (integers and decimals) |
| Standard Form | Perimeter | Pie Charts |
| Fraction of Amount | Write as a %/Write as Frac | Pictograms |

★★★★

| Best Buys | Simplify Algebraic Expressions | Rounding |
|---|---|---|
| Currency/Harder Unit Conversions | Area problem solve (Could be surface area) | Speed, Distance, Time (might be a unit conversion) |
| Reverse % | Probability | Write as ratio (including form 1:n) |
| Use of scales (could be on a map or e.g. height of a tree/building) | Factors and Multiples (More likely multiples) | Solve Linear Equation (More like 1 or 2 step equation) |
| Share into ratio/Application of Ratio | Relate Ratio for Fraction or Percentage | Similar Lengths |

★★★

| Averages From Diagram or Table or List | Increase/Decrease by % | Venn Diagrams |
|---|---|---|
| Angle Facts | Simplify Ratio | Frequency Polygons |
| Frequency Trees | Pythagoras | Types of Graphs |
| Coordinates | Surface Area 3D shapes | Linear Inequality |
| Fraction Operations | Angles in Polygons | Inequality Diagram |
| Substitution | Scatter Diagrams | Angles in Parallel Lines |
| Form and Solve Equation | Tree Diagrams | Column Vectors |
| Area of shapes (triangle, parallelogram, trapezium) | Conversion Graphs | Plans and Elevations |
| Time Calculation (include bus timetables and time conversions) | Order Fractions | Number Machines |

## ★★

| | | |
|---|---|---|
| Index Laws | Compound Interest | Show lines are Parallel |
| Inverse Proportion | Square roots, Cube roots | Solve Quadratic Equation |
| Pressure, Force, Area | Mark on Probability Scale | Identify Parallel/Perpendicular Lines |
| Convert Units of area/volume | Expression, Equation, Formula, Identity, Term | Parts of a Circle |
| Types of Number (Square, Cube, Prime etc) | Distance Time Graphs | Faces, Edges, Vertices |
| Use of inequality signs | Inequality (List values) | Congruent Shapes |
| Equivalent fraction/Simplify Fraction | Vertical and Horizontal Lines (and their equations) | Volume Problem solve |
| Negative Numbers | Volume of 3D Shapes | Order of Operations (BIDMAS) |
| Evaluate Indices | Name Shapes | Symmetry |
| Angles in a Quadrilateral Properties of quadrilaterals | Midpoint of line | Set notation |
| Bar Charts | Find Equation of a Line | Vertical Line Graphs |
| Transformations (Translation or Reflection if it does come up) | Find Gradient/Intercept (Given equation) | Reciprocals |
| % of amount | Show point is on a line | Simultaneous Equations Graphically |

## ★

| | | | |
|---|---|---|---|
| Angles in a Triangle/Properties of triangles | Quadratic Graphs | HCF/LCM | Multiply/Divide Decimals |
| Factorise (including quadratics) | Expand/Simplify (includes double brackets) | Density, Mass, Volume | Draw Straight Line Graph |
| Measure Line/Angle | Listing Outcomes | Constructions, bisectors, loci, triangles, circles | Estimation |
| Metric Unit Conversions | Product of Primes | Tally Chart | % Profit or %change |
| Listing Outcomes | Use of calculator | Bearings | Two way tables |
| SOHCAHTOA | Change Subject | Linear Simultaneous Equations | Stem and Leaf |