

List of Topics To Be Revised For Foundation GCSE Maths

<u>Grade 2 and below:</u>	<u>Grade 3</u>	<u>Grade 4/5</u>	<u>Grade 5</u>
<ul style="list-style-type: none"> • Place value • Directed numbers • Angles – measure/type • Simple angle facts • Complete a tally chart • Collect like terms • Estimating Introduction • Rounding • Line Symmetry • Ordering Decimals • Adding and Subtracting Decimals • Multiply Decimals by Whole Numbers, 10 and 100 • Dividing Decimals by Whole Numbers • Multiply 2 Decimals Together • Equivalent Fractions • Comparing Fractions • Fractions to Decimals to Percentages • Long Division • Simple Percentage of Amounts • Simplifying Expressions • Coordinates • Reading Scales • Time • Metric Units • Pictograms • Term to term sequences • Simple area and perimeter • 	<ul style="list-style-type: none"> • Adding and Subtracting Fractions • Multiplying and Dividing Fractions Basic • Fractions to Decimals to Percentages • Proportion Graphs • Proportion Unitary Method • Solving Simple Linear Equations • Drawing Simple Graphs • Drawing Graphs of the form $y=mx+c$ • Factorising Linear Expressions • Angles In Parallel Lines • Interior and Exterior Angles • Circumference of a Circle • Area Of a Circle • Nets, Surface Area • Area of a Parallelogram • Area of a Triangle • Constructing Shapes • Drawing Pie Charts • Grouping Data – Tally Charts • Scatter Graphs • Listing Outcomes • Estimation – Integers • Mean, mode median and range. • Midpoints • Volume of Prisms • Percentage of an amount 	<ul style="list-style-type: none"> • Significant Figures • Estimating Calculations - decimals • Multiplying And Dividing Fractions • Mixed Numbers • Ratio Dividing • Percentage Change • Indices • Drawing Real Life Graphs • nth term • Basic Angle Proofs • Transformations • Substitution • Rearranging – without indices • Inequalities – drawing, number line • Negative Inequalities • Simplifying • Brackets – linear (expand/factorise) • Area Of a Trapezium • Drawing Loci • Pythagoras Theorem • Volume of Cylinders • Mean, Mode & Median From Frequency Table • Stem And Leaf • Relative Frequency • HCF & LCM • Bearings • Questionnaires • Add/Subtract mixed numbers • Two way tables • Speed/Distance/Time • Angle bisectors • Frequency Polygons 	<ul style="list-style-type: none"> • Upper and Lower Bounds - identify • Simultaneous Equations • Negative Simultaneous Equations • Reciprocals • Percentage Change – compound interest • Indices - Negative • Standard Form • Rearranging - indices • Recognising Graphs • Sketching Graphs • Shading Inequalities - graphs • Circle Theorems • Dimensions Of Formulae • Similar Triangles • Trigonometry • Moving Averages • Cumulative Frequencies • Box And Whisper Plots • Independent Probability • Sampling • Expand two brackets • Range and IQR for discrete data • Transformations – combinations • Quadratic graphs • Density/Mass/Volume • Inverse proportion • Graphing simultaneous equations • 3D Coordinates • Modelling Real Life Situations With Graphs

List of Topics To Be Revised For Higher GCSE Maths

Grade 4/5

- Significant Figures
- Estimating Calculations - decimals
- Multiplying And Dividing Fractions
- Mixed Numbers
- Ratio Dividing
- Percentage Change
- Indices
- Drawing Real Life Graphs
- nth term
- Basic Angle Proofs
- Transformations
- Substitution
- Rearranging – without indices
- Inequalities – drawing, number line
- Negative Inequalities
- Simplifying
- Brackets – linear (expand/factorise)
- Area Of a Trapezium
- Drawing Loci
- Pythagoras Theorem
- Volume of Cylinders
- Mean, Mode & Median From Frequency Table
- Stem And Leaf
- Relative Frequency
- HCF & LCM
- Bearings
- Questionnaires
- Add/Subtract mixed numbers
- Two way tables
- Speed/Distance/Time
- Angle bisectors
- Frequency Polygons

Grade 5/6

- Upper and Lower Bounds - identify
- Simultaneous Equations
- Negative Simultaneous Equations
- Reciprocals
- Percentage Change – compound interest
- Indices - Negative
- Standard Form
- Rearranging - indices
- Recognising Graphs
- Sketching Graphs
- Shading Inequalities - graphs
- Circle Theorems
- Dimensions Of Formulae
- Similar Triangles
- Trigonometry
- Moving Averages
- Cumulative Frequencies
- Box And Whisper Plots
- Independent Probability
- Venn Diagrams and Set notation
- Sampling
- Expand two brackets
- Range and IQR for discrete data
- Transformations – combinations
- Quadratic graphs
- Density/Mass/Volume
- Inverse proportion
- Graphing simultaneous equations
- 3D Coordinates
- Modelling Real Life Situations With Graphs
- Non Linear Sequences and Iterations

Grade 7 – 9

- Exponential Growth
- Bounds - Calculations
- Surds
- Direct and Inverse Proportions (K)
- Factorising Quadratics
- Cancelling Algebraic Fractions
- Adding Algebraic Fractions
- Multiplying Algebraic Fractions
- Equations With Graphs
- Solving With Graphs
- Transforming Graphs
- Quadratic Simultaneous Equations
- Area Scale Factor
- Complex Surface Areas
- Circle Theorem Proof
- Algebraic Proof
- Arcs, Sectors, Segments
- Congruent Triangles
- Pythagoras 3D
- Volume Scale Factor
- Sine Rule
- Cosine Rule
- Area Of A Scalene Triangle – Sine rule
- 3D Trigonometry
- Sine, Cosine & Tan Graphs
- Transforming Trigonometry Graphs
- Vectors
- Volumes Of Cones And Spheres
- Histograms
- Recurring Decimals
- Stratified sampling
- Factorise a quadratic
- Complete the Square
- Indices – fractional
- Trig ratios – for any angle