## GCSE Mathematics

 Revision List HigherElectronic copy contains links to Maths genie videos

|  | Dates of examinations: |  |
| :--- | :--- | :--- |
| Paper 1 (Non-calculator) | Paper 2 (Calculator) | Paper 3 (Calculator) |
| Friday $19^{\text {th }}$ May 2023 | Wednesday $7^{\text {th }}$ June 2023 | Wednesday $14^{\text {th }}$ June 2023 |


| Revised |  | Grade 4 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| In Class | At Home | Videos | Exam Questions | Exam Questions Booklet | Solutions |
|  |  | Compound Interest and Depreciation | Exam Questions | Compound Interest and Depreciation | Solutions |
| Y |  | Indices | Exam Questions | Indices | Solutions |
|  |  | Prime Factors, HCF and LCM | Exam Questions | HCF, LCM | Solutions |
|  |  | Real Life and Distance Time Graphs |  | Real Life Graphs | Solutions |
| Y |  | Inequalities | Exam Questions | Inequalities | Solutions |
|  |  | Forming and Solving Equations | Exam Questions | Forming and Solving Equations | Solutions |
|  |  | Sequences (Nth Term) | Exam Questions | Sequences (nth term) | Solutions |
|  |  | Expanding and Factorising | Exam Questions | Expand and Factorise | Solutions |
|  |  | Pythagoras | Exam Questions | Pythagoras | Solutions |
|  |  | Angles in Parallel Lines | Exam Questions | Angles in Parallel Lines | Solutions |
|  |  | Angles in Polygons | Exam Questions | Angles in Polygons | Solutions |
|  |  | Surface Area | Exam Questions | Surface Area | Solutions |
| Y |  | Volume of a Prism | Exam Questions | Volume of Prisms | Solutions |
|  |  | Cylinders | Exam Questions | Volume and Surface Area of Cylinders | Solutions |
|  |  | Loci and Construction |  | Loci and Construction | Solutions |
|  |  | Bearings |  | Bearings | Solutions |
| Y |  | Plans and Elevations | Exam Questions | Plans and Elevations | Solutions |
|  |  | Averages from Frequency Tables | Exam Questions | Averages from Frequency Tables | Solutions |
|  |  | Probability | Exam Questions | Probability and Relative Frequency | Solutions |
|  |  | Scatter Graphs |  | Scatter Graphs | Solutions |


| Revised |  | Grade 5 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| In Class | At Home | Videos | Exam Questions | Exam Questions Booklet | Solutions |
| Y |  | Writing a Ratio as a Fraction or Linear Function | Exam Questions | Ratio Fraction Problems | Solutions |
| Y |  |  | Exam Questions | Ratio Problems 2 | Solutions |
| Y |  | Direct and Inverse Proportion | Exam Questions | Direct and Inverse Proportion | Solutions |
|  |  | Reverse Percentages | Exam Questions | Reverse Percentages | Solutions |
|  |  | Standard Form | Exam Questions | Standard Form | Solutions |
| Y |  | Speed and Density | Exam Questions | Compound Measures | Solutions |
| Y |  | Changing the Subject of a Formula | Exam Questions | Changing the Subject of a Formula | Solutions |
| Y |  | Expanding and Factorising Quadratics | Exam Questions | Expanding and Factorising Quadratics | Solutions |
|  |  | Solving Quadratics | Exam Questions | Solving Quadratics | Solutions |
|  |  | Drawing Quadratic Graphs |  | Quadratic Graphs | Solutions |
|  |  | Drawing Other Graphs: Cubic/Reciprocal |  | Cubic/Reciprocal Graphs | Solutions |
|  |  | Simultaneous Equations | Exam Questions | Simultaneous Equations | Solutions |
|  |  | Solving Simultaneous Equations Graphically | Exam Questions | Solving Simultaneous Equations Graphically | Solutions |
|  |  | Midpoint of a Line Segment |  |  |  |
|  |  | Gradient of a Line | Exam Questions | Gradient of a Line | Solutions |
|  |  | Equation of a Line | Exam Questions | Equation of a Line | Solutions |
| Y |  | Spheres and Cones | Exam Questions | Spheres and Cones | Solutions |
|  |  | Sector Areas and Arc Lengths | Exam Questions | Sectors and Arcs | Solutions |
| Y |  | Similar Shapes (Lengths) | Exam Questions | Similar Shapes (Lengths) | Solutions |
| Y |  | SOHCAHTOA (Trigonometry) | Exam Questions | SOHCAHTOA | Solutions |
| Y |  | Exact trig values | Exam Questions | Exact trig values | Solutions |
| Y |  | Vectors |  | Vectors | Solutions |
| Y |  | Probability Trees | Exam Questions | Probability Trees | Solutions |
|  |  | Venn Diagrams | Exam Questions | Venn Diagrams | Solutions |

Higher content only (not cross over)

| Revised |  | Grade 6 |  | Exam Questions Booklet | Solutions |
| :---: | :---: | :---: | :---: | :---: | :---: |
| In Class | At Home | Videos | Exam Questions |  |  |
|  |  | Recurring Decimals to Fractions | Exam Questions | Converting Recurring Decimals to Fractions | Solutions |
| Y |  | Fractional and Negative Indices | Exam Questions | Fractional and Negative Indices | Solutions |
| Y |  | The Product Rule for Counting | Exam Questions | The Product Rule for Counting | Solutions |
|  |  | Repeated Percentage Change | Exam Questions | Repeated Percentage Change | Solutions |
|  |  | Expanding Triple Brackets | Exam Questions | Expanding Triple Brackets | Solutions |
| Y |  | Parallel and Perpendicular Lines | Exam Questions | Parallel and Perpendicular Lines | Solutions |
| Y |  | Inequalities on Graphs |  | Inequalities on Graphs | Solutions |
| Y |  | Similar Shapes (Area and Volume) | Exam Questions | Similar Shapes (Area and Volume) | Solutions |
| Y |  | Enlarging with Negative Scale Factors |  | Enlarging with Negative Scale Factors | Solutions |
|  |  | Circle Theorems | Exam Questions | Circle Theorems | Solutions |
|  |  | Cumulative Frequency |  | Cumulative Frequency | Solutions |
|  |  | Box Plots | Exam Questions | Box Plots | Solutions |
|  |  | Capture Recapture | Exam Questions | Capture Recapture | Solutions |


| Revised |  | Grade 7 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| In Class | At Home | Videos | Exam Questions | Exam Questions Booklet | Solutions |
| Y |  | Surds | Exam Questions | Surds | Solutions |
| Y |  | Bounds | Exam Questions | Bounds | Solutions |
|  |  | Direct and Inverse Proportion | Exam Questions | Direct and Inverse Proportion | Solutions |
|  |  | Quadratic Formula | Exam Questions | Quadratic Formula | Solutions |
| Y |  | Factorising Harder Quadratics | Exam Questions | Factorising Harder Quadratics | Solutions |
| Y |  | Algebraic Fractions | Exam Questions | Algebraic Fractions | Solutions |
| Y |  | Rearranging Harder Formulae | Exam Questions | Rearranging Harder Formulae | Solutions |
|  |  | Trigonometric and Exponential Graphs |  | Harder Graphs: Trig/Exponential | Solutions |
|  |  | Inverse and Composite Functions | Exam Questions | Inverse and Composite Functions | Solutions |
| Y |  | Iteration | Exam Questions | Solving Equations using Iteration | Solutions |
|  |  | Finding the Area of Any Triangle | Exam Questions | Finding the Area of Any Triangle | Solutions |
| Y |  | The Sine Rule | Exam Questions | The Sine Rule | Solutions |
| Y |  | The Cosine Rule | Exam Questions | The Cosine Rule | Solutions |
| Y |  | Congruent Triangles | Exam Questions | Congruent Triangles | Solutions |
|  |  | 3d Pythagoras and Trigonometry | Exam Questions | 3d Pythagoras and Trigonometry | Solutions |
| Y |  | Histograms |  | Histograms | Solutions |
| Y |  | Conditional Probability | Exam Questions | Conditional Probability | Solutions |


| Revised |  | Grade 8/9 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| In Class | At Home | Videos | Exam Questions | Exam Questions Booklet | Solutions |
|  |  | Quadratic Simultaneous Equations | Exam Questions | Quadratic Simultaneous Equations | Solutions |
| Y |  | Transforming Graphs $\mathrm{y}=\mathrm{f}(\mathrm{x})$ |  | Transforming Graphs $\mathrm{y}=\mathrm{f}(\mathrm{x})$ | Solutions |
| Y |  | Proof | Exam Questions | Proof | Solutions |
|  |  | Completing the Square | Exam Questions | Completing the Square | Solutions |
|  |  | The Nth Term of a Quadratic Sequence | Exam Questions | Quadratic Sequences | Solutions |
|  |  | Quadratic Inequalities | Exam Questions | Quadratic Inequalities | Solutions |
|  |  | Velocity Time Graphs |  | Velocity Time Graphs | Solutions |
|  |  | Proof of the Circle Theorems | Exam Questions | Proof of the Circle Theorems | Solutions |
| Y |  | Perpendicular Lines and the equation of a tangent | Exam Questions | Perpendicular Lines | Solutions |
| Y |  | Vectors Proof Questions | Exam Questions | Vectors | Solutions |
|  |  | Probability Equation Questions | Exam Questions | Probability Equation Questions | Solutions |

