

PAPER 1

Every Topic on the 2022 Maths GCSE Revision Checklist (Higher)

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Number

- Fraction of an Amount
- Fraction Calculations
- Recurring Decimals
- Product of Prime Factors
- Negative and Fractional Indices
- Simplification of Surds
- Standard Form Conversions
- Standard Form Calculations

Algebra

- Simplification
- Expansion of a Bracket
- Algebraic Fractions
- Form an Equation
- Linear Inequality
- Quadratic Equations
- Equation of a Tangent
- Quadratic Graphs
- Parallel/Perpendicular Lines
- Speed-time Graphs
- Gradient of a Curve

Geometry

- Angles in a Polygon
- Area of a Triangle
- Area of a Sector
- Surface Area of a Cuboid
- Volume of a Cube
- Pythagoras Theorem
- Exact Trig Values
- Vector Geometry

Ratio & Proportion

- Percentages of an Amount
- Write as a Ratio
- Use of Ratio
- Share in a Ratio
- Ratio as a Fraction
- Equations of Proportion
- Density

Probability

- Probability
- Independent Events

Statistics

- Cumulative Frequency
- Mean
- Inter-quartile Range

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PAPER 2

Every Topic on the 2022 Maths GCSE Revision Checklist (Higher)

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Algebra

- Simplification
- Expansion of a Bracket
- Factorisation
- Laws of Indices
- Linear Equation
- Form an Equation
- Quadratic Inequality
- Parallel Line Equations
- Coordinates
- Transformations of Graphs
- Trigonometric Graphs
- Inverse/Composite Functions

Ratio & Proportion

- Depreciation
- Use of Ratio
- Direct Proportion
- Currency Conversion
- Inverse Proportion
- Pressure

Geometry

- Transformations
- Circle Theorems
- Area of a Rectangle
- Volume of a Composite Solid
- Sine Rule
- Cosine Rule

Statistics

- Box Plots
- Lower and Upper Quartiles
- Compare Distributions
- Capture-Recapture

Number

- Error Intervals
- Using a Calculator

Probability

- Venn Diagrams
- Probability from a Venn Diagram

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PAPER 3

Every Topic on the 2022 Maths GCSE Revision Checklist (Higher)

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Algebra

- Simplification
- Expansion of a Bracket
- Substitution
- Change Subject of a Formula
- Forming Expressions
- Expansion of Brackets
- Difference of Two Squares
- Algebraic Fractions
- Simultaneous Equations
- Quadratic Simultaneous Equations

Number

- Negative Numbers
- Laws of Indices
- Bounds
- Product Rule for Counting

Ratio & Proportion

- Time
- Percentage Decrease
- Depreciation
- Reverse Percentage
- Write as a Ratio
- Writing a ratio as 1:n
- Share in a ratio
- Direct Proportion
- Average Speed
- Iterative Processes

Probability

- Dependent Combined Events

Geometry

- Circle Theorems
- Area of a Trapezium
- Similar Triangles
- Pythagoras Theorem
- Trigonometry
- Trigonometry in 3D
- Column Vectors

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Statistics

- Frequency Polygon
- Histograms

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Fractions	Fraction of an amount	72	https://www.mathsgenie.co.uk/resources/2-fractions-of-an-amount-ws.pdf
	Calculating with fractions	71, 73, 74	https://www.mathsgenie.co.uk/resources/3-fractions-ws.pdf
	Recurring decimals to fractions	177, 189	https://www.mathsgenie.co.uk/resources/6-recurring-decimals-ws.pdf
Number properties	Product of prime factors	28, 78	https://www.mathsgenie.co.uk/resources/4-HCF-and-LCM-ws.pdf
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	Negative and fractional indices	154, 188	https://www.mathsgenie.co.uk/resources/6-fractional-and-negative-indices-ws.pdf
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