

PAPER 1

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

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Number

- Estimations
- Product of Prime Factors
- Money Calculations
- Fraction of an Amount
- Fraction Calculations
- Standard Form Conversions
- Standard Form Calculations
- Place Value
- Ordering FDP
- Negative Numbers

Ratio & Proportion

- Length Conversions
- Percentage of an Amount
- Percentage Increase
- Write as a Ratio
- Share in a Ratio
- Direct Proportion
- Speed, Distance, Time
- Density, Mass, Volume

Algebra

- Simplification
- Substitution
- Linear Inequalities
- Quadratic Equations
- Quadratic Graphs
- Linear Sequences

Geometry

- Reflections
- Plans and Elevations
- Angles in Polygons
- Volume of a Cube
- Volume of a Cylinder
- Exact Trig Values

Probability

- Probability
- Frequency Trees

Statistics

- Pictograms
- Bar Charts
- Stem and Leaf Diagrams

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Everything you need
to get a Grade 5
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PAPER 2

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

Number

- Money
- Negative Numbers
- Fraction Calculations
- Order Fractions
- Order Integers
- Multiples
- Rounding
- Error Intervals
- Using Mathematical Symbols

Ratio & Proportion

- Mass, Time, Area
- Scale Drawing
- Decimals to Percentages
- Percentage Profit
- Depreciation
- Write as a Ratio
- Direct Proportion
- Currency Conversion

Algebra

- Simplification
- Expansion of a Bracket
- Factorisation
- Laws of Indices
- Simultaneous Equations
- Coordinates
- Straight Line Graphs
- Number Machines

Geometry

- Polygons
- Circles
- Parallel/ Perpendicular Lines
- Transformations
- Angles in a Triangle
- Vertically Opposite Angles
- Area of a Rectangle

Probability

- Tree Diagrams
- Combined Events

Statistics

- Interpret a Graph
- Two-way Tables
- Frequency Table
- Mode, Median, Mean

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PAPER 3

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Number

- Four Operations
- Negative Numbers
- Fraction of an Amount
- One as a Fraction of Another
- Equivalent Fractions
- Factors
- Lowest Common Multiple
- Square Root
- Rounding
- Calculator Use

Ratio & Proportion

- Time
- Compound Units
- Scale Drawing
- Percentage to a Fraction
- Percentage Decrease
- One as a Percentage of Another
- Reverse Percentages
- Write as a Ratio
- 1:n Form
- Direct Proportion
- Average Speed

Algebra

- Simplification
- Expansion of a Bracket
- Factorisation
- Substitution
- Subject of a Formula
- Forming an Expression
- Linear Equation
- Form an Equation
- Linear Sequence

Geometry

- Triangle Properties
- Quadrilaterals
- Triangular Prism
- Angles in a Triangle
- Vertically Opposite Angles
- Angles in Parallel Lines
- Bearings
- Area of a Triangle
- Area of a Trapezium
- Pythagoras Theorem

Probability

- Probability Scale
- Probability

Geometry

- Frequency Polygon
- Median and Range
- Comparison of Distributions

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Area of maths	Topic area	Mathswatch clip	Link to maths genie
Arithmetic	Money	22, 105	(Mr Barton Maths) http://www.mrbartonmaths.com/resources/GCSE%20Revision/GCSE%20Maths%20Takeaway/1.%20Grades%20G,%20F%20and%20E/8_money-problems.pdf
	Four operations	17, 18, 19, 20	https://www.mathsgenie.co.uk/resources/1-addition-and-subtraction-ws.pdf https://www.mathsgenie.co.uk/resources/1-multiplication-and-division-ws.pdf
	Negative numbers	23, 25, 68	https://www.mathsgenie.co.uk/resources/1-negative-numbers-ws.pdf
Fractions	Order FDP	85	https://www.mathsgenie.co.uk/resources/2-fractions-decimals-and-percentages-ws.pdf
	Fraction of an amount	72	https://www.mathsgenie.co.uk/resources/2-fractions-of-an-amount-ws.pdf
	One amount as a fraction of another	88, 89	https://www.mathsgenie.co.uk/resources/2-writing-simplifying-and-ordering-fractions-ws.pdf
	Equivalent fractions	25	https://www.mathsgenie.co.uk/resources/2-writing-simplifying-and-ordering-fractions-ws.pdf
	Calculating with fractions	71, 73, 74	https://www.mathsgenie.co.uk/resources/3-fractions-ws.pdf
Properties of numbers	Place value	1, 92	https://www.mathsgenie.co.uk/resources/1-place-value-ws.pdf
	Order integers	2	(Corbett maths) https://corbettmaths.com/wp-content/uploads/2013/02/place-value-pdf.pdf
	Multiples	28	https://www.mathsgenie.co.uk/resources/1-factors-multiples-and-primes-ws.pdf
	Factors	28	
	LCM (and HCF)	80 (79)	https://www.mathsgenie.co.uk/resources/4-HCF-and-LCM-ws.pdf
Product of prime factors	78		
Powers and roots	Square roots	81	https://www.mathsgenie.co.uk/resources/1-powers-and-roots-ws.pdf
Standard form	Conversion between ordinary numbers and standard form	30,	https://www.mathsgenie.co.uk/resources/5-standard-form-ws.pdf
	Calculation with numbers	83	

	in standard form		
Approximation	Rounding	31, 32, 90	https://www.mathsgenie.co.uk/resources/1-rounding-ws.pdf
	Error interval	155	https://www.mathsgenie.co.uk/resources/3-error-intervals-ws.pdf
	Estimation	90, 91	https://www.mathsgenie.co.uk/resources/3-estimation-ws.pdf
Manipulation	Simplifying	33, 34, 35	https://www.mathsgenie.co.uk/resources/2-simplifying-algebra-ws.pdf
	Substitution	95	https://www.mathsgenie.co.uk/resources/3-substitution-ws.pdf
Inequalities	Linear inequalities	138, 139	https://www.mathsgenie.co.uk/resources/4-inequalities-ws.pdf
Equations	Quadratic equations	157, 158	https://www.mathsgenie.co.uk/resources/5-expanding-and-factorising-quadratics-ws.pdf https://www.mathsgenie.co.uk/resources/5-solving-quadratics-by-factorising-ws.pdf
	Quadratic graphs	98	https://www.mathsgenie.co.uk/resources/5-quadratic-graphs.pdf
Sequences	Linear sequences (nth term)	102, 103	https://www.mathsgenie.co.uk/resources/4-sequences-ws.pdf
Conversion	Lengths	112	https://www.mathsgenie.co.uk/resources/3-conversions-and-units.pdf
Percentages	Percentage of an amount	86, 87	https://www.mathsgenie.co.uk/resources/3-percentages-ws.pdf
	Percentage increase	108	
Ratio	Write as a ratio	38	https://www.mathsgenie.co.uk/resources/3-writing-and-simplifying-ratio-ws.pdf
	Share in to a ratio	106	https://www.mathsgenie.co.uk/resources/3-sharing-ratio-ws.pdf
Proportion	Direct proportion	39, 42, 164	https://www.mathsgenie.co.uk/resources/29_proportion-ingredients.pdf
Compound measures	Speed	142	https://www.mathsgenie.co.uk/resources/5-compound-measures-ws.pdf
	Density	142	
Transformations	Reflections	48, 49	https://www.mathsgenie.co.uk/resources/3-reflections.pdf https://www.mathsgenie.co.uk/resources/3-transformations.pdf
	Plan and elevations	51	https://www.mathsgenie.co.uk/resources/4-plans-and-elevations-ws.pdf
Angles	Angles in polygons	123	https://www.mathsgenie.co.uk/resources/4-angles-in-polygons-ws.pdf
Length, area and volume	Volume of a cube	115	https://www.mathsgenie.co.uk/resources/4-volume-of-a-prism-ws.pdf

	Volume of a cylinder	117, 118, 119	https://www.mathsgenie.co.uk/resources/4-cylinders-ws.pdf
Pythagoras' trigonometry	Exact values of trig	173	https://www.mathsgenie.co.uk/resources/5-exact-trig-values-ws.pdf
Probability	Basic probability	14, 125	https://www.mathsgenie.co.uk/resources/2-writing-probability-and-the-probability-scale-ws.pdf
	Frequency trees	57	https://www.mathsgenie.co.uk/resources/3-frequency-trees-ws.pdf
Statistics	Pictograms	16	https://www.mathsgenie.co.uk/resources/1-pictograms.pdf
	Bar charts	15	https://www.mathsgenie.co.uk/resources/2-bar-charts.pdf
	Stem and leaf diagrams	128b	https://www.mathsgenie.co.uk/resources/2-stem-and-leaf-diagrams-ws.pdf
Other	Mathematical symbols	5	(corbett maths) https://corbettmaths.com/wp-content/uploads/2013/02/algebraic-notation-pdf2.pdf
	Calculator use	77	https://www.mathsgenie.co.uk/resources/2-using-a-calculator-ws.pdf