FREE FROM MARNIE BLOOM EDUCATION

GCSE Maths tracker

Every topic for Foundation and Higher, for any exam board

Name _____ Exam board _____

Tier (Foundation / Higher) _____ Exam year _____

Tick a topic when you've covered it, then shade the circles to show how confident you feel (1 = just started, 3 = I could do an exam question). Topics marked H are Higher tier only.

Number

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Place value and ordering integers, decimals and fractions, using < > ≤ ≥ ≠	F + H	○ ○ ○	
☐	Adding, subtracting, multiplying and dividing whole numbers, decimals and negatives	F + H	○ ○ ○	
☐	Order of operations (BIDMAS)	F + H	○ ○ ○	
☐	Factors, multiples and primes, including HCF, LCM and prime factorisation	F + H	○ ○ ○	
☐	Squares, cubes, square roots and cube roots	F + H	○ ○ ○	
☐	Index laws for multiplying and dividing powers	F + H	○ ○ ○	
☐	Fraction calculations, including mixed numbers	F + H	○ ○ ○	
☐	Converting between fractions, decimals and percentages	F + H	○ ○ ○	
☐	Standard form	F + H	○ ○ ○	
☐	Rounding to decimal places and significant figures, and estimating answers	F + H	○ ○ ○	
☐	Error intervals	F + H	○ ○ ○	
☐	Counting strategies and the product rule	F + H	○ ○ ○	
☐	Exact answers in terms of π	F + H	○ ○ ○	
☐	Fractional and negative indices	H	○ ○ ○	
☐	Surds, including simplifying and rationalising the denominator	H	○ ○ ○	
☐	Converting recurring decimals to fractions	H	○ ○ ○	
☐	Upper and lower bounds in calculations	H	○ ○ ○	

Algebra

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Algebraic notation and simplifying expressions	F + H	○ ○ ○	
☐	Substituting numbers into expressions and formulae	F + H	○ ○ ○	
☐	Expanding single and double brackets	F + H	○ ○ ○	

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Factorising, including quadratics like $x^2 + bx + c$ and the difference of two squares	F + H	○ ○ ○	
☐	Rearranging formulae to change the subject	F + H	○ ○ ○	
☐	Solving linear equations, including with unknowns on both sides	F + H	○ ○ ○	
☐	Linear inequalities, including on a number line	F + H	○ ○ ○	
☐	Solving linear simultaneous equations	F + H	○ ○ ○	
☐	Solving quadratic equations by factorising	F + H	○ ○ ○	
☐	Sequences: term-to-term rules and the nth term of a linear sequence	F + H	○ ○ ○	
☐	Straight-line graphs, gradient and $y = mx + c$	F + H	○ ○ ○	
☐	Drawing and recognising quadratic, cubic and reciprocal graphs	F + H	○ ○ ○	
☐	Real-life graphs, including distance–time graphs	F + H	○ ○ ○	
☐	Expressions, equations, formulae and identities: knowing the difference	F + H	○ ○ ○	
☐	Factorising quadratics like $ax^2 + bx + c$	H	○ ○ ○	
☐	Quadratic formula and completing the square	H	○ ○ ○	
☐	Linear and quadratic simultaneous equations	H	○ ○ ○	
☐	Quadratic inequalities	H	○ ○ ○	
☐	nth term of a quadratic sequence	H	○ ○ ○	
☐	Algebraic fractions	H	○ ○ ○	
☐	Functions, including inverse and composite functions	H	○ ○ ○	
☐	Algebraic proof	H	○ ○ ○	
☐	Iteration to find approximate solutions	H	○ ○ ○	
☐	Exponential and trigonometric graphs	H	○ ○ ○	
☐	Transforming graphs, such as $y = f(x + a)$	H	○ ○ ○	
☐	Equation of a circle and tangents to a circle	H	○ ○ ○	
☐	Gradients and areas under graphs, and what they mean	H	○ ○ ○	

Ratio, proportion and rates of change

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Converting units, including area and volume units	F + H	○ ○ ○	
☐	Compound measures: speed, density and pressure	F + H	○ ○ ○	
☐	Scale drawings and maps	F + H	○ ○ ○	
☐	Simplifying ratios and sharing in a ratio	F + H	○ ○ ○	
☐	Linking ratios and fractions	F + H	○ ○ ○	
☐	Percentages of amounts, and percentage increase and decrease	F + H	○ ○ ○	

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Percentage change and reverse percentages	F + H	○ ○ ○	
☐	Simple and compound interest, growth and decay	F + H	○ ○ ○	
☐	Direct and inverse proportion, including graphs	F + H	○ ○ ○	
☐	Best buys and the unitary method	F + H	○ ○ ○	
☐	Proportion equations, such as $y \propto x^2$	H	○ ○ ○	
☐	Rates of change from the gradient of a curve	H	○ ○ ○	

Geometry and measures

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Angle facts: on lines, at points, in triangles and with parallel lines	F + H	○ ○ ○	
☐	Angles in polygons	F + H	○ ○ ○	
☐	Properties of triangles, quadrilaterals and other 2D shapes	F + H	○ ○ ○	
☐	Constructions and loci	F + H	○ ○ ○	
☐	Perimeter and area of rectangles, triangles, parallelograms and trapezia	F + H	○ ○ ○	
☐	Circumference and area of circles, arcs and sectors	F + H	○ ○ ○	
☐	3D shapes: faces, edges, vertices, nets, plans and elevations	F + H	○ ○ ○	
☐	Volume and surface area of prisms, cylinders, cones, pyramids and spheres	F + H	○ ○ ○	
☐	Transformations: reflection, rotation, translation and enlargement	F + H	○ ○ ○	
☐	Congruence and similarity	F + H	○ ○ ○	
☐	Pythagoras' theorem	F + H	○ ○ ○	
☐	Trigonometry in right-angled triangles (SOH CAH TOA) and exact values	F + H	○ ○ ○	
☐	Bearings	F + H	○ ○ ○	
☐	Vectors: adding, subtracting and multiplying by a number	F + H	○ ○ ○	
☐	Enlargement with negative and fractional scale factors	H	○ ○ ○	
☐	Similar shapes: lengths, areas and volumes	H	○ ○ ○	
☐	Sine rule, cosine rule and area = ½ab sin C	H	○ ○ ○	
☐	Pythagoras and trigonometry in 3D	H	○ ○ ○	
☐	Circle theorems	H	○ ○ ○	
☐	Vector proofs	H	○ ○ ○	

Probability

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	The probability scale and calculating simple probabilities	F + H	○ ○ ○	
☐	Relative frequency and expected outcomes	F + H	○ ○ ○	

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Listing outcomes and sample space diagrams	F + H	○ ○ ○	
☐	Venn diagrams and set notation	F + H	○ ○ ○	
☐	Tree diagrams and independent events	F + H	○ ○ ○	
☐	Conditional probability	H	○ ○ ○	

Statistics

DONE	TOPIC	TIER	CONFIDENCE	DATE
☐	Populations and samples	F + H	○ ○ ○	
☐	Mean, median, mode and range, including from frequency tables	F + H	○ ○ ○	
☐	Bar charts, pie charts, pictograms and line graphs	F + H	○ ○ ○	
☐	Scatter graphs, correlation and lines of best fit	F + H	○ ○ ○	
☐	Time series graphs	F + H	○ ○ ○	
☐	Estimating the mean from grouped data	F + H	○ ○ ○	
☐	Comparing two sets of data	F + H	○ ○ ○	
☐	Cumulative frequency and box plots	H	○ ○ ○	
☐	Histograms with unequal class widths	H	○ ○ ○	

Topics follow the Department for Education's GCSE subject content, which all exam boards use. Wording and order vary by board, so check your board's specification for the full detail.