AQA GCSE Maths — Revise next after Paper 1

You have finished Paper 1 (non-calculator). This list shows AQA topics that did not appear on that paper, so you can plan your revision for Paper 2 and Paper 3 (calculator).

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Please read: This is practice material from The Maths Vault, not an official AQA document. Past-paper patterns are a guide only — they do not tell you what will definitely be on your next exam. Always follow advice from your teacher.

Higher tier

AQA GCSE Mathematics (8300) Higher Paper 1F (non-calculator)

These 98 topics did not come up on [illegible] Paper 1F (Higher tier). They are grouped by area of maths, with the ones that have appeared most often on Papers 2 and 3 in past years listed first — a useful guide for what to revise next.

How to read the table: the Paper 2 and Paper 3 columns count how often similar questions have appeared on AQA calculator papers in previous years.

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Algebra			
Real-life linear graphs (Higher)	28 times since 2022; 84 in all past papers	27 times since 2022; 83 in all past papers	Worth prioritising
Linear graphs (Higher)	28 times since 2022; 82 in all past papers	26 times since 2022; 81 in all past papers	Worth prioritising
Conversion graphs	25 times since 2022; 74 in all past papers	23 times since 2022; 72 in all past papers	Worth prioritising
Midpoint of a line	20 times since 2022; 54 in all past papers	13 times since 2022; 59 in all past papers	Worth prioritising
Quadratic formula	20 times since 2022; 49 in all past papers	16 times since 2022; 50 in all past papers	Worth prioritising
Quadratic inequalities	19 times since 2022; 49 in all past papers	14 times since 2022; 55 in all past papers	Worth prioritising
Algebraic fractions	18 times since 2022; 57 in all past papers	12 times since 2022; 45 in all past papers	Worth prioritising
Graphical simultaneous equations	16 times since 2022; 46 in all past papers	13 times since 2022; 46 in all past papers	Worth prioritising
Non-linear simultaneous equations	16 times since 2022; 46 in all past papers	13 times since 2022; 46 in all past papers	Worth prioritising
Simultaneous equations	16 times since 2022; 46 in all past papers	13 times since 2022; 46 in all past papers	Worth prioritising
Algebraic proof	8 times since 2022; 33 in all past papers	12 times since 2022; 45 in all past papers	Keep in your revision plan

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Factorising quadratics	12 times since 2022; 38 in all past papers	9 times since 2022; 34 in all past papers	Keep in your revision plan
Parallel and perpendicular lines	11 times since 2022; 32 in all past papers	8 times since 2022; 33 in all past papers	Keep in your revision plan
Factorising	9 times since 2022; 28 in all past papers	7 times since 2022; 29 in all past papers	Keep in your revision plan
Interpreting inequalities (regions)	8 times since 2022; 24 in all past papers	5 times since 2022; 29 in all past papers	Keep in your revision plan
Expanding brackets	6 times since 2022; 22 in all past papers	8 times since 2022; 26 in all past papers	Keep in your revision plan
Geometric progressions / geometric sequences	5 times since 2022; 11 in all past papers	6 times since 2022; 16 in all past papers	Keep in your revision plan
Distance between two points	3 times since 2022; 13 in all past papers	3 times since 2022; 10 in all past papers	Revise when you can
Iteration	2 times since 2022; 5 in all past papers	1 time since 2022; 8 in all past papers	Revise when you can
Substitution	1 time since 2022; 5 in all past papers	4 in all past papers	Revise when you can
Identities	Not seen often	Not seen often	Less common on Papers 2–3
Geometry and measure			
Area of a circle	19 times since 2022; 66 in all past papers	23 times since 2022; 77 in all past papers	Worth prioritising
Metric units (area and volume)	18 times since 2022; 75 in all past papers	23 times since 2022; 64 in all past papers	Worth prioritising
Similar shapes	20 times since 2022; 67 in all past papers	21 times since 2022; 50 in all past papers	Worth prioritising
Area of a sector	15 times since 2022; 59 in all past papers	19 times since 2022; 54 in all past papers	Worth prioritising
Area of a trapezium	15 times since 2022; 59 in all past papers	19 times since 2022; 54 in all past papers	Worth prioritising
Surface area of prisms	15 times since 2022; 59 in all past papers	19 times since 2022; 54 in all past papers	Worth prioritising
Angles in parallel lines	16 times since 2022; 43 in all past papers	12 times since 2022; 48 in all past papers	Worth prioritising
3D trigonometry and Pythagoras	10 times since 2022; 39 in all past papers	11 times since 2022; 38 in all past papers	Worth prioritising
Speed, distance, time	9 times since 2022; 32 in all past papers	8 times since 2022; 36 in all past papers	Keep in your revision plan
Volume of a cylinder	9 times since 2022; 30 in all past papers	11 times since 2022; 23 in all past papers	Keep in your revision plan
Volume of a frustum	9 times since 2022; 30 in all past papers	11 times since 2022; 23 in all past papers	Keep in your revision plan
Circle theorems	7 times since 2022; 19 in all past papers	6 times since 2022; 30 in all past papers	Keep in your revision plan

PREDICTED 2026 P2/3

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Loci	9 times since 2022; 24 in all past papers	4 times since 2022; 24 in all past papers	Keep in your revision plan
Angles in polygons	8 times since 2022; 21 in all past papers	5 times since 2022; 20 in all past papers	Keep in your revision plan
Cosine rule	5 times since 2022; 17 in all past papers	8 times since 2022; 18 in all past papers	Keep in your revision plan
Pythagoras	5 times since 2022; 22 in all past papers	4 times since 2022; 15 in all past papers	Keep in your revision plan
Exact trigonometric values	4 times since 2022; 18 in all past papers	5 times since 2022; 11 in all past papers	Keep in your revision plan
Density	1 time since 2022; 8 in all past papers	3 times since 2022; 8 in all past papers	Revise when you can
Circumference	3 times since 2022; 9 in all past papers	1 time since 2022; 2 in all past papers	Revise when you can
Invariant points	2 times since 2022; 6 in all past papers	2 times since 2022; 4 in all past papers	Revise when you can
Pressure	1 time since 2022; 7 in all past papers	1 time since 2022; 6 in all past papers	Revise when you can
Column vectors	2 in all past papers	2 times since 2022; 5 in all past papers	Revise when you can
Vectors	2 in all past papers	2 times since 2022; 5 in all past papers	Revise when you can
Bearings	1 time since 2022; 3 in all past papers	1 time since 2022; 3 in all past papers	Revise when you can
Arc length	3 in all past papers	1 time since 2022; 5 in all past papers	Revise when you can
Constructions	Not seen often	Not seen often	Less common on Papers 2–3
Enlargements	Not seen often	Not seen often	Less common on Papers 2–3
Reflections	Not seen often	Not seen often	Less common on Papers 2–3
Rotations	Not seen often	Not seen often	Less common on Papers 2–3
Translations	Not seen often	Not seen often	Less common on Papers 2–3
Graphs and functions			
Transformations of graphs	32 times since 2022; 98 in all past papers	29 times since 2022; 94 in all past papers	Worth prioritising
Quadratic graphs	32 times since 2022; 94 in all past papers	28 times since 2022; 91 in all past papers	Worth prioritising
Cubic graphs	27 times since 2022; 85 in all past papers	28 times since 2022; 85 in all past papers	Worth prioritising
Reciprocal graphs	28 times since 2022; 77 in all past papers	23 times since 2022; 73 in all past papers	Worth prioritising
Exponential graphs	25 times since 2022; 74 in all past papers	23 times since 2022; 72 in all past papers	Worth prioritising

PREDICTED 2026 P2/3

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Equation of a circle	20 times since 2022; 61 in all past papers	17 times since 2022; 65 in all past papers	Worth prioritising
Equation of a tangent	16 times since 2022; 46 in all past papers	13 times since 2022; 46 in all past papers	Worth prioritising
Solving quadratics graphically	16 times since 2022; 44 in all past papers	12 times since 2022; 44 in all past papers	Worth prioritising
Sketching quadratics	8 times since 2022; 24 in all past papers	9 times since 2022; 31 in all past papers	Keep in your revision plan
Average rates of change	9 times since 2022; 27 in all past papers	6 times since 2022; 18 in all past papers	Keep in your revision plan
Inverse functions	6 times since 2022; 21 in all past papers	9 times since 2022; 21 in all past papers	Keep in your revision plan
Composite functions	3 times since 2022; 12 in all past papers	5 times since 2022; 13 in all past papers	Keep in your revision plan
Instantaneous rates of change	3 times since 2022; 13 in all past papers	4 times since 2022; 9 in all past papers	Revise when you can
Number			
Proportional graphs	25 times since 2022; 74 in all past papers	23 times since 2022; 72 in all past papers	Worth prioritising
Standard form	23 times since 2022; 69 in all past papers	16 times since 2022; 51 in all past papers	Worth prioritising
Compound interest	12 times since 2022; 41 in all past papers	13 times since 2022; 42 in all past papers	Worth prioritising
Percentage change	15 times since 2022; 41 in all past papers	11 times since 2022; 35 in all past papers	Worth prioritising
Ratio	13 times since 2022; 31 in all past papers	11 times since 2022; 42 in all past papers	Worth prioritising
Recurring decimals to fractions	15 times since 2022; 42 in all past papers	8 times since 2022; 32 in all past papers	Worth prioritising
Reverse percentages	14 times since 2022; 35 in all past papers	9 times since 2022; 31 in all past papers	Keep in your revision plan
Percentages of amounts	12 times since 2022; 28 in all past papers	7 times since 2022; 26 in all past papers	Keep in your revision plan
Product rule for counting	6 times since 2022; 21 in all past papers	10 times since 2022; 24 in all past papers	Keep in your revision plan
Simple interest	7 times since 2022; 18 in all past papers	7 times since 2022; 24 in all past papers	Keep in your revision plan
Decimals	8 times since 2022; 21 in all past papers	4 times since 2022; 17 in all past papers	Keep in your revision plan
Indices (integer)	7 times since 2022; 21 in all past papers	2 times since 2022; 24 in all past papers	Keep in your revision plan
Product of prime factors	4 times since 2022; 9 in all past papers	3 times since 2022; 14 in all past papers	Revise when you can
Direct proportion	4 times since 2022; 10 in all past papers	4 times since 2022; 8 in all past papers	Revise when you can
Inverse proportion	4 times since 2022; 10 in all past papers	4 times since 2022; 8 in all past papers	Revise when you can

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Proportion (applications)	4 times since 2022; 10 in all past papers	4 times since 2022; 8 in all past papers	Revise when you can
Use of a calculator	2 times since 2022; 9 in all past papers	3 times since 2022; 15 in all past papers	Revise when you can
Error intervals	1 time since 2022; 8 in all past papers	3 times since 2022; 11 in all past papers	Revise when you can
Limits of accuracy	2 times since 2022; 7 in all past papers	1 time since 2022; 5 in all past papers	Revise when you can
Best buys	Not seen often	Not seen often	Less common on Papers 2–3
Currency	Not seen often	Not seen often	Less common on Papers 2–3
Statistics and probability			
Scatter graphs	25 times since 2022; 74 in all past papers	23 times since 2022; 72 in all past papers	Worth prioritising
Frequency trees	13 times since 2022; 32 in all past papers	6 times since 2022; 24 in all past papers	Keep in your revision plan
Median from frequency tables	13 times since 2022; 32 in all past papers	6 times since 2022; 24 in all past papers	Keep in your revision plan
Tree diagrams	9 times since 2022; 24 in all past papers	8 times since 2022; 25 in all past papers	Keep in your revision plan
Venn diagrams	9 times since 2022; 24 in all past papers	8 times since 2022; 25 in all past papers	Keep in your revision plan
Conditional probability	8 times since 2022; 20 in all past papers	8 times since 2022; 21 in all past papers	Keep in your revision plan
Probability	8 times since 2022; 20 in all past papers	8 times since 2022; 21 in all past papers	Keep in your revision plan
Histograms	3 times since 2022; 7 in all past papers	2 times since 2022; 6 in all past papers	Revise when you can
Modal class from tables	3 times since 2022; 8 in all past papers	5 in all past papers	Revise when you can
Two-way tables	3 times since 2022; 8 in all past papers	5 in all past papers	Revise when you can
Combined mean	Not seen often	Not seen often	Less common on Papers 2–3
Estimated mean	Not seen often	Not seen often	Less common on Papers 2–3
Samples	Not seen often	Not seen often	Less common on Papers 2–3

PREDICTED 2023

Topics that were on Paper 1H (31)

- Adding fractions
- Area under a curve
- Box plots
- Changing the subject
- Collecting like terms
- Completing the square
- Congruent triangles
- Cumulative frequency
- Dividing fractions
- Enlargements (Negative and Fractional)

- Enlargements (positive)
- Equations (solving)
- Estimation
- Fractional and negative indices (Higher)
- Geometric proof
- LCM and HCF
- Linear inequalities (solving)
- Multiplying fractions
- Pie charts
- Reciprocal
- Relative frequency
- Sine rule
- Sphere and cone volume and surface area
- Surds
- Travel graphs
- Triangles: area (½ ab sin C)
- Trigonometry (right-angled)
- Trigonometry, Reciprocal and Exponential Graphs
- Volume of a cuboid and prism
- nth term of a linear sequence
- nth term of a quadratic sequence

