OCR GCSE Maths — Papers 2 & 3 / Papers 5 & 6 revision lists

These are revision lists for Papers 2 and 3 (Foundation) and Papers 5 and 6 (Higher). You have finished the non-calculator paper (Paper 2 or Paper 5). This PDF shows OCR topics that did not appear on that paper, to help you revise for the calculator paper (Paper 3 on Foundation, Paper 6 on Higher).

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Please read: This is practice material from The Maths Vault, not an official OCR 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

OCR GCSE Mathematics (J560) Higher Paper 5 (non-calculator)

These 107 topics did not come up on Paper 5 (Higher tier) in June 2026. They are grouped by area of maths, with the ones that have appeared most often on Paper 6 in past years listed first — a useful guide for what to revise next.

How to read the table: the numbered columns count how often similar questions have appeared on past OCR calculator papers (Foundation: Paper 3; Higher: Paper 6).

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Algebra			
Real-life linear graphs (Higher)	27 times since 2022; 54 in all past papers	20 times since 2022; 64 in all past papers	Worth prioritising
Linear graphs (Higher)	27 times since 2022; 54 in all past papers	20 times since 2022; 63 in all past papers	Worth prioritising
Algebraic fractions	22 times since 2022; 75 in all past papers	17 times since 2022; 57 in all past papers	Worth prioritising
Conversion graphs	26 times since 2022; 49 in all past papers	20 times since 2022; 59 in all past papers	Worth prioritising
Quadratic formula	18 times since 2022; 42 in all past papers	15 times since 2022; 40 in all past papers	Worth prioritising
Quadratic inequalities	16 times since 2022; 39 in all past papers	11 times since 2022; 37 in all past papers	Worth prioritising
Equations (solving)	14 times since 2022; 39 in all past papers	11 times since 2022; 38 in all past papers	Worth prioritising
Midpoint of a line	15 times since 2022; 40 in all past papers	9 times since 2022; 37 in all past papers	Worth prioritising
Factorising quadratics	8 times since 2022; 34 in all past papers	13 times since 2022; 30 in all past papers	Keep in your revision plan
Graphical simultaneous equations	11 times since 2022; 32 in all past papers	10 times since 2022; 32 in all past papers	Keep in your revision plan

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Algebraic proof	8 times since 2022; 32 in all past papers	9 times since 2022; 31 in all past papers	Keep in your revision plan
Factorising	6 times since 2022; 29 in all past papers	13 times since 2022; 27 in all past papers	Keep in your revision plan
Parallel and perpendicular lines	9 times since 2022; 18 in all past papers	9 times since 2022; 26 in all past papers	Keep in your revision plan
Completing the square	7 times since 2022; 22 in all past papers	9 times since 2022; 18 in all past papers	Keep in your revision plan
Expanding brackets	4 times since 2022; 25 in all past papers	5 times since 2022; 14 in all past papers	Keep in your revision plan
Geometric progressions / geometric sequences	6 times since 2022; 11 in all past papers	3 times since 2022; 14 in all past papers	Keep in your revision plan
Distance between two points	2 times since 2022; 5 in all past papers	1 time since 2022; 6 in all past papers	Revise when you can
Substitution	2 times since 2022; 4 in all past papers	1 time since 2022; 5 in all past papers	Revise when you can
Changing the subject	1 time since 2022; 3 in all past papers	6 in all past papers	Revise when you can
Iteration	2 times since 2022	2 in all past papers	Revise when you can
Collecting like terms	3 in all past papers	Not seen often	Revise when you can
Geometry and measure			
Travel graphs	26 times since 2022; 49 in all past papers	20 times since 2022; 59 in all past papers	Worth prioritising
Metric units (area and volume)	19 times since 2022; 43 in all past papers	23 times since 2022; 68 in all past papers	Worth prioritising
Area of a circle	15 times since 2022; 41 in all past papers	24 times since 2022; 68 in all past papers	Worth prioritising
Similar shapes	11 times since 2022; 33 in all past papers	19 times since 2022; 56 in all past papers	Worth prioritising
Area of a sector	11 times since 2022; 29 in all past papers	20 times since 2022; 54 in all past papers	Worth prioritising
Area of a trapezium	11 times since 2022; 29 in all past papers	20 times since 2022; 54 in all past papers	Worth prioritising
Surface area of prisms	11 times since 2022; 29 in all past papers	20 times since 2022; 54 in all past papers	Worth prioritising
Angles in parallel lines	15 times since 2022; 33 in all past papers	11 times since 2022; 39 in all past papers	Worth prioritising
3D trigonometry and Pythagoras	13 times since 2022; 42 in all past papers	12 times since 2022; 32 in all past papers	Worth prioritising
Angles in polygons	11 times since 2022; 24 in all past papers	4 times since 2022; 18 in all past papers	Keep in your revision plan
Volume of a cylinder	3 times since 2022; 8 in all past papers	12 times since 2022; 31 in all past papers	Keep in your revision plan
Volume of a frustum	3 times since 2022; 8 in all past papers	12 times since 2022; 31 in all past papers	Keep in your revision plan

PREDICTED PAPER 2023

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Pythagoras	7 times since 2022; 23 in all past papers	5 times since 2022; 13 in all past papers	Keep in your revision plan
Cosine rule	3 times since 2022; 10 in all past papers	9 times since 2022; 23 in all past papers	Keep in your revision plan
Geometric proof	6 times since 2022; 19 in all past papers	4 times since 2022; 20 in all past papers	Keep in your revision plan
Sine rule	3 times since 2022; 10 in all past papers	9 times since 2022; 23 in all past papers	Keep in your revision plan
Exact trigonometric values	8 times since 2022; 19 in all past papers	1 time since 2022; 9 in all past papers	Keep in your revision plan
Loci	6 times since 2022; 8 in all past papers	4 times since 2022; 17 in all past papers	Keep in your revision plan
Congruent triangles	3 times since 2022; 7 in all past papers	4 times since 2022; 13 in all past papers	Revise when you can
Density	4 times since 2022; 6 in all past papers	3 times since 2022; 10 in all past papers	Revise when you can
Arc length	2 times since 2022; 7 in all past papers	2 times since 2022; 4 in all past papers	Revise when you can
Pressure	2 times since 2022; 4 in all past papers	1 time since 2022; 4 in all past papers	Revise when you can
Circumference	1 time since 2022; 3 in all past papers	2 times since 2022; 3 in all past papers	Revise when you can
Vectors	2 in all past papers	6 in all past papers	Revise when you can
Bearings	1 time since 2022	1 in all past papers	Revise when you can
Invariant points	1 in all past papers	2 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			
Trigonometry, Reciprocal and Exponential Graphs	42 times since 2022; 102 in all past papers	32 times since 2022; 91 in all past papers	Worth prioritising
Transformations of graphs	33 times since 2022; 72 in all past papers	24 times since 2022; 74 in all past papers	Worth prioritising
Quadratic graphs	31 times since 2022; 64 in all past papers	25 times since 2022; 73 in all past papers	Worth prioritising
Cubic graphs	27 times since 2022; 58 in all past papers	22 times since 2022; 68 in all past papers	Worth prioritising

PREDICTED 2026 P2/3

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Reciprocal graphs	29 times since 2022; 60 in all past papers	20 times since 2022; 59 in all past papers	Worth prioritising
Exponential graphs	26 times since 2022; 49 in all past papers	20 times since 2022; 59 in all past papers	Worth prioritising
Equation of a circle	15 times since 2022; 48 in all past papers	14 times since 2022; 43 in all past papers	Worth prioritising
Area under a curve	11 times since 2022; 29 in all past papers	20 times since 2022; 54 in all past papers	Worth prioritising
Equation of a tangent	11 times since 2022; 32 in all past papers	10 times since 2022; 32 in all past papers	Keep in your revision plan
Solving quadratics graphically	11 times since 2022; 28 in all past papers	7 times since 2022; 28 in all past papers	Keep in your revision plan
Sketching quadratics	11 times since 2022; 21 in all past papers	4 times since 2022; 13 in all past papers	Keep in your revision plan
Inverse functions	6 times since 2022; 17 in all past papers	7 times since 2022; 20 in all past papers	Keep in your revision plan
Average rates of change	3 times since 2022; 13 in all past papers	4 times since 2022; 12 in all past papers	Revise when you can
Composite functions	2 times since 2022; 11 in all past papers	2 times since 2022; 9 in all past papers	Revise when you can
Instantaneous rates of change	2 times since 2022; 8 in all past papers	3 times since 2022; 8 in all past papers	Revise when you can
Number			
Proportional graphs	26 times since 2022; 49 in all past papers	20 times since 2022; 59 in all past papers	Worth prioritising
Adding fractions	21 times since 2022; 73 in all past papers	15 times since 2022; 51 in all past papers	Worth prioritising
Dividing fractions	19 times since 2022; 63 in all past papers	14 times since 2022; 44 in all past papers	Worth prioritising
Multiplying fractions	19 times since 2022; 63 in all past papers	14 times since 2022; 44 in all past papers	Worth prioritising
Recurring decimals to fractions	19 times since 2022; 63 in all past papers	14 times since 2022; 44 in all past papers	Worth prioritising
Reverse percentages	12 times since 2022; 43 in all past papers	11 times since 2022; 35 in all past papers	Worth prioritising
Percentage change	10 times since 2022; 45 in all past papers	12 times since 2022; 34 in all past papers	Worth prioritising
Compound interest	10 times since 2022; 34 in all past papers	12 times since 2022; 37 in all past papers	Worth prioritising
Decimals	12 times since 2022; 36 in all past papers	8 times since 2022; 29 in all past papers	Keep in your revision plan
Ratio	9 times since 2022; 38 in all past papers	9 times since 2022; 29 in all past papers	Keep in your revision plan
Percentages of amounts	8 times since 2022; 37 in all past papers	9 times since 2022; 26 in all past papers	Keep in your revision plan
Product rule for counting	3 times since 2022; 14 in all past papers	14 times since 2022; 31 in all past papers	Keep in your revision plan

PREDICTED GCSE 2026

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Simple interest	6 times since 2022; 24 in all past papers	9 times since 2022; 22 in all past papers	Keep in your revision plan
Indices (integer)	8 times since 2022; 16 in all past papers	4 times since 2022; 14 in all past papers	Keep in your revision plan
Direct proportion	5 times since 2022; 8 in all past papers	5 times since 2022; 11 in all past papers	Revise when you can
Inverse proportion	5 times since 2022; 8 in all past papers	5 times since 2022; 11 in all past papers	Revise when you can
Proportion (applications)	5 times since 2022; 8 in all past papers	5 times since 2022; 11 in all past papers	Revise when you can
Reciprocal	5 times since 2022; 15 in all past papers	2 times since 2022; 5 in all past papers	Revise when you can
Limits of accuracy	4 times since 2022; 9 in all past papers	3 times since 2022; 10 in all past papers	Revise when you can
Surds	3 times since 2022; 13 in all past papers	2 times since 2022	Revise when you can
LCM and HCF	4 in all past papers	5 times since 2022; 8 in all past papers	Revise when you can
Error intervals	1 in all past papers	2 times since 2022; 6 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
Estimation	Not seen often	Not seen often	Less common on Papers 2–3
Statistics and probability			
Scatter graphs	26 times since 2022; 49 in all past papers	20 times since 2022; 59 in all past papers	Worth prioritising
Venn diagrams	8 times since 2022; 22 in all past papers	7 times since 2022; 21 in all past papers	Keep in your revision plan
Conditional probability	7 times since 2022; 17 in all past papers	8 times since 2022; 22 in all past papers	Keep in your revision plan
Probability	7 times since 2022; 17 in all past papers	8 times since 2022; 22 in all past papers	Keep in your revision plan
Median from frequency tables	7 times since 2022; 23 in all past papers	7 times since 2022; 16 in all past papers	Keep in your revision plan
Cumulative frequency	7 times since 2022; 22 in all past papers	7 times since 2022; 16 in all past papers	Keep in your revision plan
Frequency trees	7 times since 2022; 22 in all past papers	7 times since 2022; 16 in all past papers	Keep in your revision plan
Relative frequency	7 times since 2022; 22 in all past papers	7 times since 2022; 16 in all past papers	Keep in your revision plan
Independent events	2 times since 2022; 7 in all past papers	2 times since 2022; 10 in all past papers	Revise when you can

PREDICTED 2025 GRADE 7/8

Topic	Paper 2 past papers	Paper 3 past papers	Revision focus
Histograms	1 time since 2022; 5 in all past papers	3 times since 2022; 5 in all past papers	Revise when you can
Modal class from tables	3 times since 2022; 8 in all past papers	1 time since 2022; 2 in all past papers	Revise when you can
Two-way tables	3 times since 2022; 8 in all past papers	1 time since 2022; 2 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

Topics that were on Paper 5 (22)

- Box plots
- Circle theorems
- Column vectors
- Enlargements (Negative and Fractional)
- Enlargements (positive)
- Fractional and negative indices (Higher)
- Interpreting inequalities (regions)
- Linear inequalities (solving)
- Non-linear simultaneous equations
- Pie charts
- Product of prime factors
- Simultaneous equations
- Speed, distance, time
- Sphere and cone volume and surface area
- Standard form
- Tree diagrams
- Triangles: area ($\frac{1}{2}$ ab sin C)
- Trigonometry (right-angled)
- Use of a calculator
- Volume of a cuboid and prism
- nth term of a linear sequence
- nth term of a quadratic sequence

