



THIRD SPACE
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Topic List

GCSE Maths Papers

Set 3

OCR

The resource in a nutshell

This resource lists all of the topics examined in the SET 3 OCR GCSE Mathematics Foundation Papers along with the paper and question number where they appear.

The topics in **bold** show which topics appear on both foundation and higher papers.

Please note, the papers are an example to help revision, these topics can be tested in other ways and other topics may be included in the actual papers.

Additional 2024 GCSE maths revision support from Third Space Learning

Free topic-based [GCSE maths revision lessons](#) including worked examples, common misconceptions and practice GCSE questions:

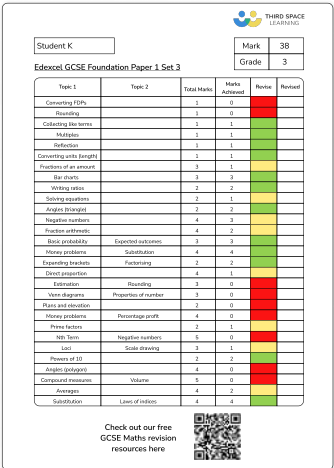
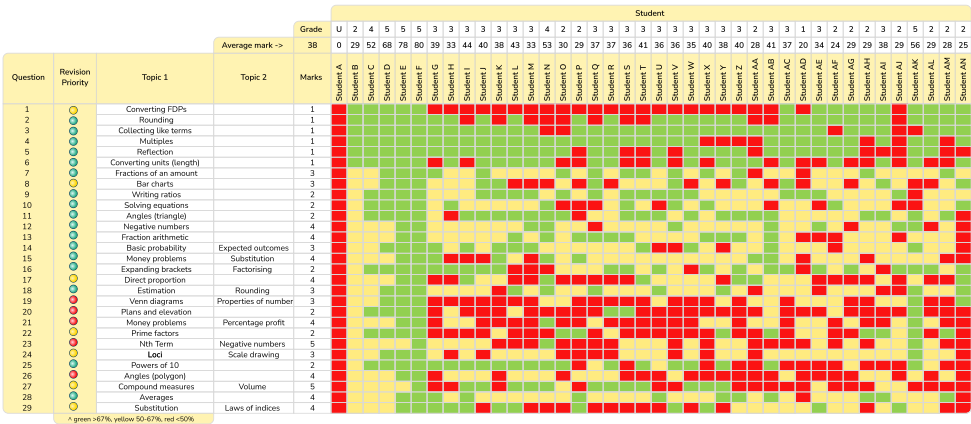
- [Algebra](#)
[Number](#)
[Geometry](#)
- [Statistics](#)
[Ratio and proportion](#)
[Probability](#)

Free downloadable topic-based [GCSE maths worksheets](#) containing functional and applied reasoning questions, practice GCSE questions and word problems. All worksheets include answers and mark schemes.

Personalised online one to one GCSE maths tuition delivered by specialist tutors and designed to guide students through GCSE-style questions on the topics they struggle most with. Available with a 70% subsidy through the [National Tutoring Programme](#).

Exam Analysis

Free downloadable **RAG analysis** available for each exam paper within this set, featuring whole class and personalised student analysis.



Topics in **bold** appear on both tiers - some of these may include the overlap questions that appear on both papers.

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 1	<ul style="list-style-type: none"> Use of a calculator 2 One number as a percentage of another 6 Standard form writing 7 Standard form calculation 7 Product rule for counting 10 Bounds 13 Compound change 20 	<ul style="list-style-type: none"> Best buy 4 Simplifying ratios 7 Reverse percentages 9 Ratio problem 18 	<ul style="list-style-type: none"> Expanding brackets 1 Solving inequalities 1 Changing the subject 11 Real-life graphs 12 Gradient 12 Quadratic sequences 14 Write an equation 17 Expanding polynomials 17 Solving quadratics 17 Proof 19 Algebraic fractions 21 Factorise 21 Transformations of graphs 22 	<ul style="list-style-type: none"> Trigonometry 3 Angles (polygons) 8 Enlargement 15 Circle theorems 16 Volume 17 Area (sector) 24 Area (triangle) 24 	<ul style="list-style-type: none"> Experimental probability 5 	<ul style="list-style-type: none"> Scatter diagrams 6 Estimated Mean 23
Paper 2	<ul style="list-style-type: none"> Fraction arithmetic 1 Prime factors 2 HCF 2 Percentage problem 4 Powers of 10 6 Estimation 8 Negative/fractional indices 11 Recurring decimals 15 Surds 23 	<ul style="list-style-type: none"> Converting units 4 Percentage profit 5 Compound measures 8, 9 Write a ratio 13 Inverse proportion 19 Ratio problem 22 	<ul style="list-style-type: none"> Laws of indices 11 Represent inequalities graphically 14 Write an equation 20 Solving quadratics 20 Quadratic graphs 21 Turning point 21 Simultaneous equations 22 	<ul style="list-style-type: none"> Loci 3 Scale drawing 3 Angles (polygons) 7 Volume 9 Area sector/arc length 16 Exact trig values 17 Pythagoras' theorem 20 Area (rectangle) 24 Perimeter (rectangle) 24 	<ul style="list-style-type: none"> Probability 12 Dependent events 18 	<ul style="list-style-type: none"> Averages 10 Cumulative frequency 12
Paper 3	<ul style="list-style-type: none"> FDP 2 Standard form 6 	<ul style="list-style-type: none"> Ratio problem 4, 20 Speed 5, 6 Speed-time graph 12 Converting units 12 Compound interest 15 	<ul style="list-style-type: none"> Sequences 1 Coordinates 4 The midpoint of line 4 Solving simultaneous equations graphically 8 Parallel, perpendicular lines 8 Gradient 8 Functions 11 Laws of Indices 14 Trial and Improvement 18 Algebraic fractions 21 Solve quadratic 21 Write and solve an equation 22 Equation of circle 23 	<ul style="list-style-type: none"> Congruence 7 Transformations 10 Similar shapes 13 Volume 17 Surface area 19 3D Pythagoras 19 Column vectors 22 Area of a triangle 23 	<ul style="list-style-type: none"> Probability 9 Expected outcomes 9 Conditional probability 9, 16 	<ul style="list-style-type: none"> Averages 3 Box plots 16