



THIRD SPACE
LEARNING

Topic List

GCSE Maths Papers

Set 3

OCR

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.

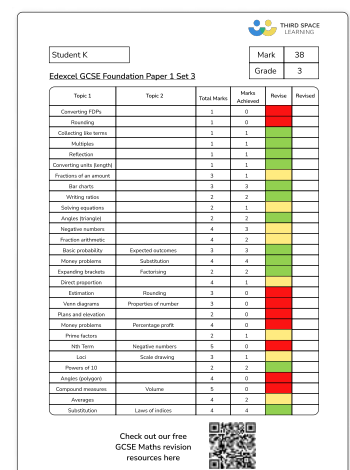
Please note, the papers are an example to help revision, these topics can be tested in other ways and other topics may be included in the actual papers.

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

Statistics
Ratio and proportion
Probability

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](#).

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"> Place value 2, 5 Order decimals 2 Types of number 5 Money problem 8, 21 Calculator use 10 Indices 11 Compare fractions 16 Mathematical symbols 16 Standard form writing 30 Standard form calculation 30 	<ul style="list-style-type: none"> Convert units (weight) 3 Percentage decrease 14 Best buy 18 Divide into a ratio 21 Inverse proportion 27 	<ul style="list-style-type: none"> Solving equations 7 Write expressions 9, 13, 28 Real-life graphs 12 Function machines 13 Substitute into a formula 15 Expanding brackets 19 Solving inequalities 19 Linear graphs 22 Equation of a line 22 Expanding quadratics 25 Difference of two squares 25 Simultaneous equations 28 	<ul style="list-style-type: none"> Properties of polygons 1 Rotational symmetry 1 Area trapezium, rectangle 17 Perimeter 23 Pythagoras' theorem 23 Trigonometry 26 Angles (polygons) 29 Column vectors 31 	<ul style="list-style-type: none"> Experimental probability 24 	<ul style="list-style-type: none"> Averages 4 Bar Charts 6 Scatter diagrams 20
Paper 2	<ul style="list-style-type: none"> Converting FDPs 1 Negative numbers 3, 19 Decimal arithmetic 3 Rounding 4 Estimation 4 Fraction arithmetic 5 Fractions of an amount 8 BIDMAS 9 Money problem 8, 11, 17 Percentage problem 12 Prime factors 18 HCF 18 Standard form 21 	<ul style="list-style-type: none"> Write a ratio 8 Simplifying ratios 8 Converting units 12 Direct proportion 14 Percentage profit 17 Compound measures 24 	<ul style="list-style-type: none"> Collect like terms 6 Expand bracket 6 Factorise 6 Simultaneous equations 11 Linear graphs 16 Non-linear graphs 16 Sequences 19 Laws of indices 26 	<ul style="list-style-type: none"> Measure angle 2 Types of angle 2 Properties of triangles 2 Reflection 7 Loci 20 Scale drawing 20 Angles (polygons) 22 Exact trig values 23 Volume 24 	<ul style="list-style-type: none"> Basic probability 10 Expected outcomes 10 Venn diagrams 15 	<ul style="list-style-type: none"> Pie charts 13 Averages 25
Paper 3	<ul style="list-style-type: none"> Converting FDPs 1 Fractions of an amount 1 Money problem 2, 6 Write a fraction 4 Calculator use 8 Reciprocal 8 Number problem 12 Negative numbers 13 Rounding 21 Error interval 21 Powers of 10 23 HCF 28 	<ul style="list-style-type: none"> Percentage of an amount 7 Ratio problem 4, 18, 26 Write a ratio 10 Ratio to fraction 18 Exchange rate 20 Compound interest 27 Speed 29 Reverse percentages 31 	<ul style="list-style-type: none"> Simplifying expressions 15 Substitution 15 Write an expression 16 Changing the subject 19 Expanding brackets 22 Solving equation 22 Coordinates 26 Midpoint line 26 	<ul style="list-style-type: none"> Time 2 Properties of 3D shapes 3 Symmetry 3 Reading scale 7 Angles in a triangle 11 Area (triangle) 14 Perimeter 16 Scale drawing 17 Bearings 17 Enlargement 24 Rotation 24 	<ul style="list-style-type: none"> Probability scale 5 Basic probability 5 Listing outcomes 9 Probability tree 30 	<ul style="list-style-type: none"> Averages 25