



THIRD SPACE
LEARNING

Topic List

GCSE Maths Papers

Set 3

Edexcel

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"> • Prime factors 1 • Fraction arithmetic 2 • Money problems 4 • Powers of 10 5 • Negative/fractional indices 10 • Recurring decimal 13 • Surds 20 	<ul style="list-style-type: none"> • Percentage profit 4 • Compound measures 7 • Write a ratio 11 • Inverse proportion 16 • Ratio problem 19 	<ul style="list-style-type: none"> • Linear sequence 9 • Non-linear sequence 9 • Laws of indices 10 • Write an equation 17, 19, 21 • Solving quadratics 17 • Quadratic graphs 18 • Turning point 18 • Simultaneous equations 19 	<ul style="list-style-type: none"> • Loci 3 • Scale drawing 3 • Angles (polygons) 6 • Volume 7 • Exact trig value 14 • Pythagoras' theorem 17 • Area of a rectangle 21 	<ul style="list-style-type: none"> • Probability 12 • Dependent events 15 	<ul style="list-style-type: none"> • Averages 8 • Cumulative frequency 11
Paper 2	<ul style="list-style-type: none"> • Writing in standard form 6 • Standard form calculation 6 • Use of a calculator 8 • Product rule for counting 10 • Iterative process 17 	<ul style="list-style-type: none"> • Inverse proportion 4 • Simplifying ratios 6 • Reverse percentages 9 • Ratio problem 16 	<ul style="list-style-type: none"> • Expanding brackets 1 • Solving inequalities 1 • Changing the subject 11 • Real life graphs 12 • Gradient 12 • Expand polynomial 15 • Forming and solving quadratics 15 • Algebraic fractions 18 • Factorising 18 • Transformations of graphs 19 	<ul style="list-style-type: none"> • Trigonometry 2, 21 • Angles (polygon) 5 • Vector calculations 7 • Enlargement 13 • Circle theorems 14 • Volume 15, 21 • Area of a sector 21 • Area of a triangle 21 	<ul style="list-style-type: none"> • Experimental probability 3 	<ul style="list-style-type: none"> • Histogram 20 • Estimated mean 20
Paper 3	<ul style="list-style-type: none"> • HCF 2 • Bounds 19 	<ul style="list-style-type: none"> • Ratio problem 4, 16 • Speed 5 • Convert units 9 • Compound interest 12 	<ul style="list-style-type: none"> • Sequences 1 • Write and solve equations 1 • Coordinates 4 • Solving simultaneous equations graphically 6 • Parallel, perpendicular lines 6 • Gradient 6 • Laws of indices 11 • Functions 13 • Changing the subject 16 • Proof 17 • Algebraic fractions 18 • Solving quadratics 18 • Equation of a circle 21 	<ul style="list-style-type: none"> • Transformations 8 • Similar shapes 10 • Surface area 15 • 3D Pythagoras 15 • Vectors 20 • Area of a triangle 21 	<ul style="list-style-type: none"> • Probability 7 • Expected outcomes 7 • Conditional probability 14 	<ul style="list-style-type: none"> • Averages 3 • Box plot 14