



THIRD SPACE
LEARNING

Topic List

GCSE Maths Papers

Set 3

AQA

The resource in a nutshell

This resource lists all of the topics examined in the SET 3 AQA 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](#)
[Statistics](#)
[Number](#)
[Ratio and proportion](#)
[Geometry](#)
[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 exam analysis** available for each exam paper within this set, featuring whole class and personalised student analysis.

Question	Revision Priority	Topic 1	Topic 2	Marks	Student																										
					Grade	U	2	4	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1		Converting FDPs		1	Student A	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
2		Rounding		1	Student B	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
3		Collecting like terms		1	Student C	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
4		Multiples		1	Student D	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
5		Reflection		1	Student E	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
6		Converting units (length)		3	Student F	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
7		Fractions of an amount		3	Student G	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
8		Bar charts		3	Student H	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
9		Writing ratios		2	Student I	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
10		Solving equations		2	Student J	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
11		Angles (triangle)		2	Student K	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
12		Negative numbers		4	Student L	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
13		Fraction arithmetic		4	Student M	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
14		Basic probability	Expected outcomes	3	Student N	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
15		Money problems	Substitution	4	Student O	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
16		Expanding brackets	Factorising	2	Student P	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
17		Direct proportion		4	Student Q	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
18		Estimation	Rounding	3	Student R	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
19		Venn diagrams	Properties of number	3	Student S	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
20		Plans and elevation		2	Student T	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
21		Money problems	Percentage profit	4	Student U	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
22		Prime factors		2	Student V	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
23		Nth Term	Negative numbers	5	Student W	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
24		Loc	Scale drawing	3	Student X	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
25		Powers of 10		2	Student Y	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
26		Angles (polygon)		4	Student Z	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
27		Compound measures	Volume	4	Student AA	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
28		Averages		4	Student AB	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40
29		Substitution	Laws of indices	4	Student AC	0	29	52	68	78	80	39	33	44	40	38	43	33	53	30	29	37	37	36	41	36	36	35	40	38	40

Student K		Mark	
Edexcel GCSE Foundation Paper 1 Set 3		38	
		Grade	
		3	
Topic 1	Topic 2	Total Marks	Mark Achieved
Converting FDPs		3	3
Rounding		1	1
Collecting like terms		1	1
Multiples		1	1
Reflection		1	1
Converting units (length)		3	3
Fractions of an amount		3	3
Bar charts		3	3
Writing ratios		2	2
Solving equations		2	2
Angles (triangle)		2	2
Negative numbers		4	4
Fraction arithmetic		4	4
Basic probability	Expected outcomes	3	3
Money problems	Substitution	4	4
Expanding brackets	Factorising	2	2
Direct proportion		4	4
Estimation	Rounding	3	3
Venn diagrams	Properties of number	3	3
Plans and elevation		2	2
Money problems	Percentage profit	4	4
Prime factors		2	2
Nth Term	Negative numbers	5	5
Loc	Scale drawing	3	3
Powers of 10		2	2
Angles (polygon)		4	4
Compound measures	Volume	4	4
Averages		4	4
Substitution	Laws of indices	4	4

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"> • Standard form 1 • Decimal arithmetic 3 • Prime factors 5 • Money problem 7 • Negative/fractional indices 12 • Recurring decimal 15 • Multiplying Decimals 17 • Surds 22 	<ul style="list-style-type: none"> • Percentage profit 7 • Write a ratio 11 • Simplifying ratios 11 • Inverse proportion 18 • Ratio problem 21 	<ul style="list-style-type: none"> • Parallel lines 2 • Sequences 10 • Laws of indices 12 • Form and solve equations 19, 23 • Solving quadratics 19 • Quadratic graph 20 • Turning point 20 • Simultaneous equations 21 • Substitution 23 	<ul style="list-style-type: none"> • Congruence 4 • Loci 6 • Scale drawing 6 • Angles (polygons) 8 • Volume 13 • Exact trig value 16 • Pythagoras' theorem 19 • Area rectangle 23 • Perimeter rectangle 23 	<ul style="list-style-type: none"> • Dependent events 17 	<ul style="list-style-type: none"> • Averages 9 • Cumulative frequency 14
Paper 2	<ul style="list-style-type: none"> • Converting FDPs 3 • Standard form writing 8 • Standard form calculation 8 • Types of number 11 • Product rule for counting 13 	<ul style="list-style-type: none"> • Equation to percentage 2 • Inverse proportion 7 • Simplifying ratios 8 • Reverse percentages 12 • Ratio problem 18 • Compound measures 22 	<ul style="list-style-type: none"> • Inequalities on a number line 1 • Solving linear equations 10 • Change the subject 14 • Real life graphs 15 • Gradient 15 • Expanding polynomials 17 • Solving quadratics 17 • Proof 19 • Algebraic fractions 21 • Factorising 21 • Transformations of graphs 23 	<ul style="list-style-type: none"> • Trigonometry 5, 25 • Angles (polygons) 9 • Tessellation 9 • Vector calculations 10 • Enlargement 16 • Volume 17, 25 • Surface area 20 • 3D Pythagoras 20 • Area sector 25 • Area triangle 25 	<ul style="list-style-type: none"> • Set notation 4 • Experimental probability 6 	<ul style="list-style-type: none"> • Histogram 24 • Mean grouped data 24
Paper 3	<ul style="list-style-type: none"> • LCM 1 • Indices 2 • Decimals 3 • Iteration 18 • Bounds 22 	<ul style="list-style-type: none"> • Ratio problem 6, 16 • Speed 8 • Converting units 13 • Compound interest 16 • Ratio to expression 19 	<ul style="list-style-type: none"> • Write an expression 4 • Sequences 5 • Form and solve equations 5 • Coordinates 6 • Midpoint of a line 6 • Exponential graphs 9 • Solving simultaneous equations graphically 10 • Parallel, perpendicular lines 10 • Gradient 10 • Laws of indices 15 • Algebraic fractions 21 • Functions 24 • Equation of circle 25 	<ul style="list-style-type: none"> • Transformations 12 • Similar shapes 14 • Circle theorems 20 • Vectors 23 • Area of a triangle 25 	<ul style="list-style-type: none"> • Probability 11 • Expected outcomes 11 • Conditional probability 17 	<ul style="list-style-type: none"> • Averages 7, 17 • Quartiles 17 • Box plot 17