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Practice Paper Index (Topic List) GCSE Maths Papers Set 5

AQA

The resource in a nutshell

This resource lists all of the topics examined in the SET 5 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.

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Stacey Atkins, Maths Director, Outwood Grange Academies Trust

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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"> Basic arithmetic 1 Negative numbers 5 Fraction arithmetic 10 Estimation 12 Indices 15, 28 Product prime factors 18 Properties of numbers 22 Standard form 24 Reverse percentages 25 	<ul style="list-style-type: none"> Ratio 8 Recipe proportion 14 Percentages 19 Ratio problem 23 	<ul style="list-style-type: none"> Linear equations 7 Coordinates 9 Equation of line 9 Substitution 11 Expand single brackets 16 Factorise 16 Change the subject 21 	<ul style="list-style-type: none"> Convert units 2 Measure angle 4 Measure length 4 Perimeter 13 Transformations 17 Angles in polygon 26 Exact trig values 27 Area circle 29 Area sector 29 	<ul style="list-style-type: none"> Venn diagram 20 Tree diagram 30 	<ul style="list-style-type: none"> Averages 3 Tally chart 6 Bar chart 6
Paper 2	<ul style="list-style-type: none"> FDP 1 Rounding 2 Money problem 5 Use of calculator 11 Powers 12 Fractions 18 Compound interest 20 Reciprocal 23 Error interval 23 	<ul style="list-style-type: none"> Conversion graph 8 Proportion 9 Ratio problem 18 	<ul style="list-style-type: none"> Simplifying algebra 3 Inequality on number line 15 Solve inequality 15 Nth term 17 Simultaneous equations 22 Forming equations 25 	<ul style="list-style-type: none"> 3D shapes 4 Symmetry 4 Angles 6 Timetable 7 Trigonometry 19 Pythagoras theorem 21 Bearings 24 Similar shapes 25 	<ul style="list-style-type: none"> Basic probability 10 Probability scale 10 	<ul style="list-style-type: none"> Two way table 13 Mean grouped frequency 14 Scatter graph 16
Paper 3	<ul style="list-style-type: none"> Factors 1 Money problem 5 Compare fractions 7 BIDMAS 9 Write fraction 6, 11 Percentages 15 Standard form 21 FDP 24 	<ul style="list-style-type: none"> Write ratio 6 Proportion 13 	<ul style="list-style-type: none"> Function machine 8 Substitution 9 Linear equations 10 Straight line graph 16 Indices 19 Quadratic graph 25 	<ul style="list-style-type: none"> Time 2, 11 Area 3 Perimeter 3 Scale drawing 4 Volume 12 Transformations 14 Angles parallel lines 18 Pythagoras theorem 22 Area semi circle 22 Area triangle 22 	<ul style="list-style-type: none"> Sample 17 Expected outcomes 20 	<ul style="list-style-type: none"> Pictogram 6 Mean 23

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"> • Multiplying decimals 1 • Fraction arithmetic 1 • Prime factors 2 • Standard form 3 • Reverse percentages 4 • Indices 9 • Recurring decimals 14 • Surds 19 	<ul style="list-style-type: none"> • Ratio to percentage 12 • Proportion 15 • Ratio problem 12, 18 	<ul style="list-style-type: none"> • Quadratic equation 10 • Reciprocal graph 11 • Estimate gradient 16 • Change the subject 17 • Geometric sequence 19 • Trig graph 21 • Functions 22 • Quadratic inequalities 22 	<ul style="list-style-type: none"> • Angles in polygon 6 • Area circle 7 • Area sector 7 • Volume 11 • Surface area 11 • Circle theorem 20 	<ul style="list-style-type: none"> • Venn diagram 5 • Tree diagram 8 	<ul style="list-style-type: none"> • Histogram 13
Paper 2	<ul style="list-style-type: none"> • Reciprocal 2 • Error interval 2 • Compound interest 5 • Calculator use 7 • Surds 20 	<ul style="list-style-type: none"> • Exchange rates 12 • Percentage change 15 	<ul style="list-style-type: none"> • Coordinates 6 • Forming equations 8 • Perpendicular lines 11 • Expand brackets 14 • Factorise quadratic 14 • Iteration 16 • Complete the square 19 • Non-linear simultaneous equations 21 • Length of line 21 	<ul style="list-style-type: none"> • Trigonometry 1 • Bearings 4 • Similar triangles 8 • Enlargement 13 • Cosine rule 17 • Area of triangle 17 • Vectors 18 	<ul style="list-style-type: none"> • Probability 10 	<ul style="list-style-type: none"> • Scatter graph 3 • Cumulative frequency 9
Paper 3	<ul style="list-style-type: none"> • Percentages 2 • Standard form 4 • LCM 7 • Product rule for counting 12 • Bounds 20 	<ul style="list-style-type: none"> • Proportion 8 • Repeat percentage change 17 	<ul style="list-style-type: none"> • Indices 1 • Inequalities 9 • Quadratic sequence 13 • Difference of two squares 15 • Algebraic fractions 19 • Quadratic formula 22 • Graph transformations 23 	<ul style="list-style-type: none"> • Pythagoras 5 • Area semi circle 5 • Area triangle 5 • Surface area cylinder/sphere 10 • Circle theorems 16 • Area and volume of similar shape 18 • 3D Pythagoras and trigonometry 21 	<ul style="list-style-type: none"> • Expected outcomes 3 • Probability 14 	<ul style="list-style-type: none"> • Mean 6 • Box plot 11

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