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Mathematics Paper Index Higher Tier

OCR

SET 2

The resource in a nutshell

This resource summarises the GCSE maths advance information provided by **OCR** for the 3 foundation papers.

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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The topics in **bold** appear on both the foundation and higher papers. The numbers in **bold** show the question number that the topic relates to.

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 4	<ul style="list-style-type: none"> Write a fraction 3 Reverse percentages 11 Compound change 11 Lowest common multiple 4 Product rule for counting 18 Money problem 10 Bounds 15 Rounding 17 	<ul style="list-style-type: none"> Direct proportion 2 Use of ratio 6, 19 Percentage increase 1 	<ul style="list-style-type: none"> Change the subject 9 Expand double brackets 22 Solve linear equation 20 Solve quadratic 20 Simultaneous equations 5 Gradient 7 Equation of straight line 7 Linear sequence 13 Non linear sequence 13 Laws of indices 20 Proof 22 	<ul style="list-style-type: none"> Area of a quadrilateral 1 Perimeter 17 Arc length 17 Volume of a cone 23 Pythagoras theorem 8 Trigonometry 8 Sine rule 24 Rotation 16 Enlargement 16 Area and volume of similar shapes 23 Bearings 24 Congruence 12 Congruent triangles 12 	<ul style="list-style-type: none"> Probability 14 Independent events 14 Listing outcomes 14 	<ul style="list-style-type: none"> Scatter diagram 3 Histogram 21
Paper 5	<ul style="list-style-type: none"> Fractions, decimals and percentages 6, 11 Decimal arithmetic 3 Reverse percentages 5 Fraction arithmetic 1 Highest common factor 2 Negative indices 10 Fractional indices 10 Rationalise denominator 20 Standard form conversion 7 Standard form calculation 7 Rounding 1 Estimation 1 Recurring decimals 11 Ordering decimals 11 Money 5 	<ul style="list-style-type: none"> Percentage to ratio 13 Percentage profit 5 	<ul style="list-style-type: none"> Simplify expression 17 Equation to fraction 6 Algebraic fractions 17 Factorise quadratic 17 Solve quadratic 21 Straight line graph 15 Plot inequalities 15 Complete the square 22 Turning point 22 Inverse and composite functions 21 Coordinates 4 	<ul style="list-style-type: none"> Area of a kite 9 Perimeter 18 Circumference of a circle 18 Volume 23 Exact trig values 9 Trigonometry 9 Circle theorems 19 Constructions 14 Loci 14 	<ul style="list-style-type: none"> Probability 8 Independent events 16 Expected outcomes 8 Venn diagram 16 	<ul style="list-style-type: none"> Pie chart 3 Cumulative frequency 12 Median 12
Paper 6	<ul style="list-style-type: none"> Money problem 8 Product of prime factors 10 Iterative process 15 Error interval 3 Bounds 3 Standard form calculation 7 Recurring decimal to fraction 13 	<ul style="list-style-type: none"> Ratio 8 Percentage increase 2 Percentage change 12 Inverse proportion 17 Pressure 12 Reverse percentages 2 	<ul style="list-style-type: none"> Substitution 7 Write inequality 6 Solve linear inequality 6 Speed time graph 16 Gradient of curve 16 Equation of a circle 19 Distance between 2 points 19 Trig graphs 21 Transformations of graphs 21 Laws of indices 1 Trial and improvement 9 	<ul style="list-style-type: none"> Area 8 Circumference of a circle 19 Surface area 6 Angles in polygon 5 Angle properties 5 Angles in parallel lines 5 Circle theorems 18 3D Pythagoras theorem 22 Vectors 20 Area under a graph 16 	<ul style="list-style-type: none"> Probability 11 Probability tree 11 Independent events 11 Conditional probability 14 Venn diagram 14 Set notation 14 	<ul style="list-style-type: none"> Mean from a table 4

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