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LEARNING

Mathematics

Question Number to Topic Index

Higher Tier

Edexcel GCSE

SET 2

The resource in a nutshell

This resource lists all of the topics examined in the SET 2 Edexcel GCSE Mathematics Higher 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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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 1	<ul style="list-style-type: none"> Decimal arithmetic 2 Highest common factor 1 Negative indices 8 Fractional indices 8 Simplifying surds 18 Rationalise denominator 18 Standard form conversion 3 Standard form calculation 3 	<ul style="list-style-type: none"> Direct proportion 9 Percentage to ratio 12 Capture-recapture 16 	<ul style="list-style-type: none"> Simplify expression 13 Write an expression 10 Change the subject 10 Algebraic fractions 13 Factorise and solve quadratic 19, 20 Straight line graph 14 Plot inequalities 14 Inequality regions 14 Complete the square 19 Turning point 19 Inverse and composite functions 20 	<ul style="list-style-type: none"> Area of a kite 7 Perimeter 15 Circumference of a circle 15 Volume 21 Pythagoras' theorem 7 Exact trig values 7 Trigonometry 7 Circle theorems 17 Constructions 4 	<ul style="list-style-type: none"> Probability 6 Expected outcomes 6 	<ul style="list-style-type: none"> Pie chart 2 Stem and leaf 5 Cumulative frequency 11 Median 11
Paper 2	<ul style="list-style-type: none"> Money problem 8 Comparing fractions 11 Reverse percentages 10 Compound change 10 Product rule for counting 13 Bounds 14 Rounding 19 	<ul style="list-style-type: none"> Direct proportion 3, 8 Use of ratio 16 Percentage increase 2 	<ul style="list-style-type: none"> Change the subject 9 Expand double brackets 20 Simplify expressions 20 Solve linear equation 17 Solve quadratic 17 Simultaneous equations 4 Non linear graphs 6 Linear sequence 12 Non linear sequence 12 Laws of indices 17 Proof 20 	<ul style="list-style-type: none"> Area of a quadrilateral 2 Volume of a cone 19 Pythagoras theorem 5 Trigonometry 5 Cosine rule 21 Sine rule 21 Enlargement 15 Area and volume of similar shapes 19 Bearings 21 Vector calculation 7 	<ul style="list-style-type: none"> Probability 11 Independent events 11 Listing outcomes 11 	<ul style="list-style-type: none"> Scatter diagram 1 Histogram 18 Correlation 1
Paper 3	<ul style="list-style-type: none"> Money problem 8 Product of prime factors 11 Types of numbers 11 Index form 11 Square numbers 11 Iterative process 14 Error interval 2 Bounds 2 Standard form calculation 6 	<ul style="list-style-type: none"> Ratio 8 Percentage increase 12 Percentage change 12 Inverse proportion 16 Pressure 12 Convert units (area) 7 	<ul style="list-style-type: none"> Substitution 6, 18 Write an inequality 5 Expand triple brackets 10 Solve linear inequality 5 Speed time graph 15 Gradient of curve 15 Equation of a circle 18 Distance between 2 points 18 Trig graphs 20 Transformations of graphs 20 Laws of indices 1 	<ul style="list-style-type: none"> Area 15 Circumference of a circle 18 Volume 5 Angles in a polygon 4 Angle properties 4 Angles in parallel lines 17 Circle theorems 17 3D Pythagoras theorem 21 Vectors 19 Area under a graph 15 	<ul style="list-style-type: none"> Probability 3 Probability tree 9 Independent events 9 Conditional probability 13 Venn diagram 13 Set notation 13 	<ul style="list-style-type: none"> Mean from a table 3

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