

Revision Lists 2025 Foundation & Higher

GCSE Maths
Edexcel
Paper 3



The resource in a nutshell

This resource provides revision lists for the Edexcel GCSE Maths papers 2 and 3 for 2025

It is not possible to accurately predict the content of exams. These revision recommendations use analysis of past exam papers; there is no guarantee that this year's papers will follow a similar pattern. We recommend that students continue to cover the full syllabus in their revision for Papers 2 and 3.

- There is a dedicated revision list for Foundation tier and Higher tier
- Each topic links to the Third Space Learning GCSE revision guides where you will find step by step examples, practice questions and exam questions.
- The revision lists provide quick links to our collection of free downloadable resources including worksheets, exam questions, diagnostic questions, revision mats and much more!

GCSE maths revision support from Third Space Learning

GCSE maths revision resources written by secondary maths teachers and examiners including:



GCSE Maths Revision Guides

Topic-based online revision guides with worked examples, common misconceptions and practice GCSE questions.



GCSE Maths Worksheets

Designed to work along side revision guides containing functional and applied reasoning questions, practice GCSE questions and word problems.



Revision PowerPoints

Hundreds of questions covering all of the key skills needed for the GCSE mathematics papers.



Revision Cards

An excellent way to practice the essential topics required for the GCSE examinations.



Revision Mats

Topic-based revision mats to help students to practice the key skills from the main six topic areas and identify any areas of development.



Exam Papers

Full sets of exam papers for higher and foundation Edexcel, AQA and OCR exam boards.



GCSE Maths Formula Sheets

Formula sheets listing all of the useful formulas at GCSE.

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Number **Algebra Probability Statistics** Ratio Geometry Best buys Simultaneous equations Pythagoras' theorem Simple probability Line graphs Rounding Compound measures Factorising single bracket Area Relative frequency Averages and range Error Intervals Direct and inverse proportion Venn diagrams and set notation Pie charts Factorising quadratics Types of angles Estimation Ratio Expanding brackets Tree diagrams Frequency polygon Truncation Angles in polygons Scale Rearranging formulae Exact trig values Sample space diagram Scatter graphs Percentage change Compound Interest and Depreciation Metric units of measurement Substitution Trigonometry SOHCAHTOA Frequency trees Bar chart Scale drawing Area and circumference of a circle Expected frequency Two way tables Simple interest Solving equations Converting units of area and Solving quadratic equations by Sector area and arc length Systematic listing strategies Averages from frequency tables Reverse percentages One number as a percentage of volume factorising 2D shapes Frequency polygon and frequency Arithmetic sequences Exchange rates Symmetry diagrams another Converting to and from Unitary method Nth term Loci and construction Stem and leaf diagram Geometric sequences Bearings Time series graph standard form Distance time graphs Laws of indices Congruence and similarity Tally chart Arithmetic with standard form. Speed time graphs Negative indices Types of data Powers and roots Rates of change Transformations Pictograms HCF and LCM Converting units of time Solving simultaneous equations Vectors Prime factor decomposition graphically Volume of prisms and cylinders Collecting like terms Cones, pyramids and spheres Negative numbers Straight line graphs Surface area of prisms and Negative powers and Reciprocals Cubic graphs Percentage of an amount cylinders Reciprocal graphs 3D shapes Converting between fractions, Parallel lines Plans and elevations decimals and percentages Function machines Perimeter of 2D shapes Fractions of amounts Solving inequalities Adding and subtracting fractions Quadratic graphs Multiplying fractions Coordinates Dividing fractions Recognising types of graphs Converting between Improper Finding the midpoint fractions and mixed numbers Simplifying expressions Comparing and ordering fractions Key Distance between two Multiplying decimals These topics are very likely to appear Dividing decimals coordinates on the next two papers in some form. Adding and subtracting decimals Formulae, expressions and identities Types of numbers These topics could still come up, Factors, multiples and prime numbers although less likely. Some have already appeared on Paper 1 or Paper Order of operations (BIDMAS) 2 but could be re-assessed in a Sequences different form. Money problems Using a calculator These topics appeared on Paper 1 or Paper 2 - but remember, these could Equivalent fractions still come up again!

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Probability Number **Statistics** Ratio Algebra Geometry Simultaneous equations Rounding Best buys Pythagoras' theorem Product rule for counting Line graphs Factorising single bracket Error intervals Compound measures Angles in polygons Conditional probability (without Pie charts Factorising guadratics Estimation Direct and inverse proportion Angles replacement) Frequency polygon Expanding brackets Upper and lower bounds Ratio Exact trig values Relative frequency Scatter graphs Rearranging formulae Truncation Scale drawing Venn diagrams and set notation Trigonometry SOHCAHTOA Histograms Substitution Percentage change Exchange rates The Sine Rule Tree diagrams Two way tables Solving equations Sample space diagram Compound interest and depreciation Unitary method The Cosine Rule Cumulative frequency and box plots Solving quadratic equations by factorising Simple interest Converting units of area and volume Area of a triangle using 1/2abSinC Frequency trees Averages from frequency tables Solving quadratic equations using the Reverse percentages Distance time graphs 3D trigonometry Expected frequency Frequency diagrams quadratic formula One number as a percentage of another Speed time graphs Completing the square Area Systematic listing strategies Time series graph Converting to and from standard form Rates of change Quadratic simultaneous equations Area and circumference of a circle Types of data Arithmetic sequences and nth term Arithmetic with standard form 3D Pythagoras Capture recapture Geometric sequences Stem and leaf diagram HCF and LCM Trigonometric graphs Laws of indices Prime factor decomposition Sector area and arc length Negative indices Fractional powers Circle theorems Fractional indices Negative powers and reciprocals Loci and construction Quadratic nth term Percentage of an amount Bearings Algebraic fractions Dividing fractions Congruence and similarity Solving simultaneous equations graphically Adding and subtracting fractions Transformations Straight line graphs Multiplying fractions Cubic graphs Vectors Exponential graphs Recurring decimals to fractions Volume of prisms and cylinders Reciprocal graphs Converting between improper fractions Cones, pyramids and spheres Circle graphs and mixed numbers Surface area of prisms and cylinders Parallel and perpendicular lines Plans and elevations Multiplying decimals Functions Equation of tangent to a circle Dividing decimals Solving inequalities Perimeter of 2D shapes Adding and subtracting surds Quadratic inequalities Surds Quadratic graphs Multiplying and dividing surds Recognising types of graphs Key Types of sequences Iteration and recurrence formulae Graph transformations Money problems These topics are very likely to appear Algebraic proof on the next two papers in some form. Using a calculator Inequality regions These topics could still come up. Finding the midpoint although less likely. Some have Simplifying expressions already appeared on Paper 1 or Paper Distance between two coordinates 2 but could be re-assessed in a Formulae, expressions and identities different form. Exponential functions These topics appeared on Paper 1 or Paper 2 - but remember, these could still come up again!



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- Q thirdspacelearning.com
- 0203 771 0095

