

# Revision Lists 2025 Foundation & Higher GCSE Maths

Edexcel Paper 2 & 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

<u>GCSE maths revision resources</u> 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.

GCSE | Foundation | Maths Revision Lists

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Number	Ratio	Algebra	Geometry	Probabili	ty	Statistics
Rounding	Best buys	Simultaneous equations	<u>Pythagoras' theorem</u>	Simple probability		Line graphs
Error Intervals	Compound measures	Factorising single bracket	• <u>Area</u>	Relative frequency		Averages and range
Estimation	Direct and inverse proportion	Factorising quadratics	Types of angles	Venn diagrams and set no	<u>tation</u>	Pie charts
Truncation	Ratio	Expanding brackets	Angles in polygons	Tree diagrams		Frequency polygon
Percentage change	<u> </u>	Rearranging formulae	Exact trig values	Sample space diagram		Scatter graphs
Compound Interest and Depreciation	Metric units of measurement	Substitution	<u>Trigonometry</u> <u>SOHCAHTOA</u>	Frequency trees		e Bar chart
Simple interest	Scale drawing	Solving equations	Area and circumference of a circle	Expected frequency		Two way tables
Reverse percentages	Converting units of area and	Solving quadratic equations by	Sector area and arc length	Systematic listing strategi	<u>es</u>	Averages from frequency tables
One number as a percentage of	<u>volume</u>	factorising	<u>2D shapes</u>			Frequency polygon and frequency
another	Exchange rates	Arithmetic sequences	Symmetry			<u>diagrams</u>
Converting to and from	Unitary method	Nth term	Loci and construction			Stem and leaf diagram
standard form	Distance time graphs	Geometric sequences	Bearings			Time series graph
Arithmetic with standard form	Speed time graphs	Laws of indices	Congruence and similarity			Tally chart
Powers and roots	Rates of change	Negative indices	<u>Transformations</u>			Types of data
HCF and LCM	Converting units of time	Solving simultaneous equations	Vectors			Pictograms
Prime factor decomposition		graphically	Volume of prisms and cylinders			
Negative numbers		Collecting like terms	Cones, pyramids and spheres			
Negative powers and Reciprocals		Straight line graphs	Surface area of prisms and			
Percentage of an amount		Cubic graphs	<u>cylinders</u>			
Converting between fractions,		Reciprocal graphs	<u>3D shapes</u>			
decimals and percentages		Parallel lines	Plans and elevations			
Fractions of amounts		Function machines	Perimeter of 2D shapes			
Adding and subtracting fractions		Solving inequalities				
Multiplying fractions		Quadratic graphs				
Dividing fractions		Coordinates				
Converting between Improper		Recognising types of graphs				
fractions and mixed numbers		Finding the midpoint				
Comparing and ordering fractions		Simplifying expressions				Key
Multiplying decimals		Distance between two				,
Dividing decimals		<u>coordinates</u>			These	e topics are very likely to appear
Adding and subtracting decimals		Formulae, expressions and			on the	e next two papers in some form.
Types of numbers		identities			🛑 Thes	e topics could still come up,
Factors, multiples and prime numbers					although less likely. Some have	
Order of operations (BIDMAS)					alrea	dy appeared on Paper 1 but
Sequences						be re-assessed in a different
Money problems					form	

Equivalent fractions

but remember, these could still come

up again!

GCSE | Higher | Maths Revision Lists

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

THIRD SPACE

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