



THIRD SPACE  
LEARNING

# Revision Lists 2026 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

[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.



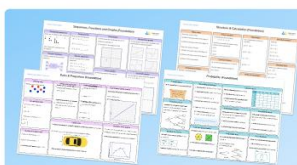
### [Revision PowerPoints](#)

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.

Number	Ratio	Algebra	Geometry	Probability	Statistics
<ul style="list-style-type: none"> <li>● Rounding</li> <li>● Error Intervals</li> <li>● Estimation</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>● Arithmetic with standard form</li> <li>● Powers and roots</li> <li>● HCF and LCM</li> <li>● Prime factor decomposition</li> <li>● Negative numbers</li> <li>● Negative powers and Reciprocals</li> <li>● Percentage of an amount</li> <li>● Dividing fractions</li> <li>● Converting between fractions, decimals and percentages</li> <li>● Fractions of amounts</li> <li>● Adding and subtracting fractions</li> <li>● Multiplying fractions</li> <li>● Converting between Improper fractions and mixed numbers</li> <li>● Comparing and ordering fractions</li> <li>● Multiplying decimals</li> <li>● Dividing decimals</li> <li>● Adding and subtracting decimals</li> <li>● Types of numbers</li> <li>● Factors, multiples and prime numbers</li> </ul>	<ul style="list-style-type: none"> <li>● Best buys</li> <li>● Compound measures</li> <li>● Direct Proportion</li> <li>● Inverse Proportion</li> <li>● Ratio</li> <li>● Scale</li> <li>● Metric units of measurement</li> <li>● Scale drawing</li> <li>● Converting units of area and volume</li> <li>● Exchange rates</li> <li>● Unitary method</li> <li>● Distance time graphs</li> <li>● Speed time graphs</li> <li>● Rates of change</li> <li>● Converting units of time</li> </ul>	<ul style="list-style-type: none"> <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>● Arithmetic sequences</li> <li>● Nth term</li> <li>● Geometric sequences</li> <li>● Laws of indices</li> <li>● Negative indices</li> <li>● Solving simultaneous equations graphically</li> <li>● Collecting like terms</li> <li>● Straight line graphs</li> <li>● Cubic graphs</li> <li>● Reciprocal graphs</li> <li>● Parallel and perpendicular lines</li> <li>● Function machines</li> <li>● Solving inequalities</li> <li>● Quadratic graphs</li> <li>● Coordinates</li> <li>● Recognising types of graphs</li> <li>● Finding the midpoint</li> <li>● Simplifying expressions</li> <li>● Distance between two coordinates</li> <li>● Formulae, expressions and identities</li> </ul>	<ul style="list-style-type: none"> <li>● Pythagoras' theorem</li> <li>● Area</li> <li>● Types of angles</li> <li>● Angles in polygons</li> <li>● Exact trig values</li> <li>● Trigonometry SOHCAHTOA</li> <li>● Area and circumference of a circle</li> <li>● Sector area and arc length</li> <li>● 2D shapes</li> <li>● Symmetry</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>● Cones, pyramids and spheres</li> <li>● Surface area of prisms and cylinders</li> <li>● 3D shapes</li> <li>● Plans and elevations</li> <li>● Perimeter of 2D shapes</li> </ul>	<ul style="list-style-type: none"> <li>● Simple probability</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 style="list-style-type: none"> <li>● Line graphs</li> <li>● Averages and range</li> <li>● Pie charts</li> <li>● Frequency polygon</li> <li>● Scatter graphs</li> <li>● Bar chart</li> <li>● Two way tables</li> <li>● Averages from frequency tables</li> <li>● Frequency polygon and frequency diagrams</li> <li>● Stem and leaf diagram</li> <li>● Time series graph</li> <li>● Tally chart</li> <li>● Types of data</li> <li>● Pictograms</li> </ul>

### Key

- These topics are likely to appear on the next two papers in some form.
- These topics are less likely, but could still come up. Some of these topics have already appeared on Paper 1 but could be reassessed in a different form.
- These topics appeared on Paper 1 - but remember, these **could still** come up again!

## Number

- Rounding
- Error intervals
- Estimation
- Upper and lower bounds
- Truncation
- Percentage change
- Compound interest and depreciation
- Simple interest
- Reverse percentages
- One number as a percentage of another
- Converting to and from standard form
- Arithmetic with standard form
- HCF and LCM
- Prime factor decomposition
- Fractional powers
- Negative powers and reciprocals
- Changing the base of index form
- Percentage of an amount
- Dividing fractions
- Adding and subtracting fractions
- Multiplying fractions
- Recurring decimals to fractions
- Multiplying decimals
- Dividing decimals
- Types of numbers
- Adding and subtracting surds
- Surds
- Multiplying and dividing surds
- Types of sequences
- Money problems
- Using a calculator

## Ratio

- Best buys
- Compound measures
- Direct Proportion
- Inverse Proportion
- Ratio
- Scale drawing
- Exchange rates
- Unitary method
- Converting units of area and volume
- Distance time graphs
- Speed time graphs
- Rates of change

## Algebra

- Simultaneous equations
- Factorising single bracket
- Factorising quadratics
- Expanding brackets
- Rearranging formulae
- Substitution
- Solving equations
- Solving quadratic equations by factorising
- Solving quadratic equations using the quadratic formula
- Completing the square
- Quadratic simultaneous equations
- Arithmetic sequences and nth term
- Geometric sequences
- Laws of indices
- Negative indices
- Fractional indices
- Quadratic nth term
- Algebraic fractions
- Solving simultaneous equations graphically
- Straight line graphs
- Cubic graphs
- Exponential graphs
- Reciprocal graphs
- Circle graphs
- Parallel and perpendicular lines
- Functions
- Solving inequalities
- Quadratic inequalities
- Quadratic graphs
- Recognising types of graphs
- Iteration and recurrence formulae
- Graph transformations
- Algebraic proof
- Inequality regions
- Finding the midpoint
- Simplifying expressions
- Distance between two coordinates
- Formulae, expressions and identities
- Exponential functions

## Geometry

- Pythagoras' theorem
- Angles in polygons
- Angles
- Exact trig values
- Trigonometry SOHCAHTOA
- The Sine Rule
- The Cosine Rule
- Area of a triangle using  $\frac{1}{2}ab\sin C$
- 3D trigonometry
- Area
- Area and circumference of a circle
- 3D Pythagoras
- Trigonometric graphs
- Sector area and arc length
- Circle theorems
- Loci and construction
- Bearings
- Congruence and similarity
- Transformations
- Vectors
- Volume of prisms and cylinders
- Cones, pyramids and spheres
- Surface area of prisms and cylinders
- Plans and elevations
- Equation of tangent to a circle
- Perimeter of 2D shapes

## Probability

- Simple probability
- Product rule for counting
- Conditional probability (without replacement)
- Relative frequency
- Venn diagrams and set notation
- Tree diagrams
- Sample space diagram
- Expected frequency
- Systematic listing strategies

## Statistics

- Line graphs
- Pie charts
- Frequency polygon
- Scatter graphs
- Histograms
- Two way tables
- Cumulative frequency and box plots
- Averages from frequency tables
- Frequency diagrams
- Time series graph
- Types of data
- Capture recapture
- Stem and leaf diagram

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# Help ease the pressure with a personal GCSE maths tutor for each of your target KS4 students

Online maths tutoring from Skye, the low-cost conversational AI tutor built by secondary teachers.

- ✓ An **AI maths tutor** for GCSE students that does more than just generate questions and mark answers
- ✓ **Adaptive, dialogue-driven** one to one tutoring grounded in best practice
- ✓ **Unlimited sessions** for as many GCSE students as need it
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Get in touch:

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