

Maths Revision Lists Foundation & Higher

GCSE Maths



The resource in a nutshell

This resource provides revision lists for all of the GCSE topics that your students will need to be confident with in the GCSE exams.

- 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.



Diagnostic Questions

Topic based diagnostic questions sets to help identify and tackle common misconceptions. Available to download as worksheets and PowerPoints.



Fluent in Five

5 questions a day, 5 days a week (every term). Each week's questions focus on a set of topics designed to practice key maths skills & develop fluency.



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	
 Rounding Error Intervals Estimation 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 Powers and roots HCF and LCM Prime factor decomposition Negative numbers Negative powers and Reciprocals Percentage of an amount Dividing fractions Converting between fractions, decimals and percentages Fractions of amounts Adding and subtracting fractions Genverting between Improper fractions and mixed numbers Converting between Improper fractions and mixed numbers Converting decimals to fractions Multiplying decimals Dividing decimals Dividing decimals Types of numbers Sequences Money problems 	 Best buys Compound measures Direct and inverse proportion Ratio Scale Metric units of measurement Scale drawing Converting units of area and volume Exchange rates Unitary method Distance time graphs Speed time graphs Rates of change Converting units of time 	 Simultaneous equations Factorising single bracket Factorising quadratics Expanding brackets Rearranging formulae Substitution Solving equations Solving quadratic equations by factorising Arithmetic sequences. Nth term Geometric sequences Laws of indices Negative indices Solving simultaneous equations graphically Collecting like terms Straight line graphs Parallel and perpendicular lines Solving inequalities Quadratic graphs Coordinates Finding the midpoint. Simplifying expressions Distance between two coordinates Formulae, expressions and identities 	 Pythagoras' theorem Area Types of angles Angles in polygons Exact trig values Trigonometry SOHCAHTOA Area and circumference of a circle Sector area and arc length 2D shapes Symmetry Loci and construction Bearings Congruence and similarity Transformations Vectors Surface area of prisms and cylinders Plans and elevations Perimeter of 2D shapes 	 Simple probability Relative frequency Venn diagrams and set notation Tree diagrams Sample space diagram. Frequency trees Expected frequency Systematic listing strategies 	 Line graphs Averages and range Pie charts Frequency polygon Scatter graphs Bar chart Two way tables Averages from frequency tables Frequency polygon and frequency diagrams Stem and leaf diagram Time series graph Tally chart Types of data. Pictograms 	



Number	Ratio	Algebra	Geometry	Probability	Statistics
 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 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 decimals Dividing decimals Types of numbers Adding and subtracting surds Surds Multiplying and dividing surds Types of sequences Money problems Using a calculator 	 Best buys Compound measures Direct and inverse proportion Ratio Scale drawing Exchange rates Unitary method Converting units of area and volume Distance time graphs Speed time graphs Rates of change 	 Simultaneous equations Factorising single bracket Factorising quadratics Expanding brackets Rearranging formulae Substitution Solving equations Solving quadratic equations by factorising 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 Fractional indices Quadratic fractions Solving simultaneous equations graphically Straight line graphs Cubic graphs Exponential graphs Circle graphs Fination and perpendicular lines Function machines Functions Solving inequalities Quadratic regualities Quadratic regualities Quadratic prophs Recion machines Functions Solving inequalities Quadratic prophs Recognising types of graphs Iteration and recurrence formulae Graph transformations Algebraic proof Inequality regions Finding the midpoint. Simplifying expressions and identities Exponential functions 	 Pythagoras' theorem Angles in polygons Angles Exact trig values Trigonometry SOHCAHTOA The Sine Rule The Cosine Rule Area of a triangle using 1/2abSinC 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 Yectors Surface area of prisms and cylinders Equation of tangent to a circle Perimeter of 2D shapes 	 Simple probability Product rule for counting Conditional probability (without replacement) Relative frequency Venn diagrams and set notation Tree diagrams Sample space diagram. Frequency trees Expected frequency Systematic listing strategies 	 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

Help ease the pressure with a personalised revision programme for each of your target KS4 students

Our one to one GCSE revision programme is designed to help your target students reach their potential in their GCSE maths exams.

Our specialist maths tutors work one to one with each student, focusing on securing core KS4 content and building familiarity with the kinds of questions they'll be tackling in their GCSE exams.

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