

## CCEA (HIGHER) GCSE MATHS EXAMINATION BOARD COVERAGE

Education,	<b>Anywhere</b>	, Anytime
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TIER	TOPIC	HEADING	SUB HEADING	HIGHER CCEA UNITT3	HIGHER CCEA UNITT4	HIGHER CCEA UNIT T6
Both	Number	Integers	Ordering numbers	у		
Both	Number	Integers	Rounding numbers	У		
Both	Number	Integers	Adding and subtracting whole numbers			
Both	Number	Integers	Dividing whole numbers			
Both	Number	Integers	BIDMAS			
Both	Number	Integers	Inverse operations			
Both	Number	Negative numbers	Understanding negative numbers			
Both	Number	Decimals	integers and decimals : the four basic operations			
Both	Number	Decimals	Ordering decimals			
Both	Number	Decimals	Using place value in calculating with decimals			
Both	Number	Decimals	Order of operation : BIDMAS			
Both	Number	Decimals	Rounding decimals			
Both	Number	Decimals	Estimating decimals			
Both	Number	Decimals	Recognising their corresponding fractions			
Both	Number	Factors, primes and powers	Multiples, factors and prime numbers			
Both	Number	Factors, primes and powers	Highest common factor (hcf) and lowest common multiple (lcm)			
Both	Number	Factors, primes and powers	Squares, cubes and roots			
Both	Number	Factors, primes and powers	Index form			
Both	Number	Factors, primes and powers	Reciprocals			
Both	Number	Fractions	Equivalent fractions			
Both	Number	Fractions	Adding and subtracting fractions			
Both	Number	Fractions	Multiplying and dividing fractions			
Both	Number	Fractions	Comparing fractions			
Both	Number	Fractions	Improper fractions and mixed numbers			
Both	Number	Fractions	Performing calculations with mixed numbers			
Both	Number	Fractions	Solving problems involving fractions			
Both	Number	Fractions, decimals and percentages	Converting fractions			
Both	Number	Fractions, decimals and percentages	Converting decimals			
Both	Number	Fractions, decimals and percentages	Converting percentages			
Both	Number	Fractions, decimals and percentages	Ordering decimals, fractions and percentages			
Higher	Number	Fractions, decimals and percentages	Recurring decimals			У
Higher	Number	Index notation and surds	Index form and the law of indices		у	
Higher	Number	Index notation and surds	Fractional indices		у	
Higher	Number	Index notation and surds	Standard form			У
Higher	Number	Index notation and surds	Surds			У
Both	Number	Percentages	Writing one quantity as a percentage of another	У		
Both	Number	Percentages	Calculating the percentage of an amount	у		
Both	Number	Percentages	Increasing or decreasing an amount by a percentage	у		
Both	Number	Percentages	Real-life percentage problems	у		
Higher	Number	Percentages	Percentage of a quantity	У		
Higher	Number	Percentages	Multiplier use in calculations	у		
Higher	Number	Percentages	Profit and loss	у		
Higher	Number	Percentages	Compound and simple interest	У		
Higher	Number	Percentages	Depreciation	У		
Higher	Number	Percentages	Reverse percentages	у		
Higher	Number	Ratio and proportion	Simplifying a ratio			
Higher	Number	Ratio and proportion	Unitary form			
Higher	Number	Ratio and proportion	Solving ratio problems			
Higher	Number	Ratio and proportion	Direct and inverse proportion		у	
Higher	Number	Ratio and proportion	More complex direct and inverse proportion problems		у	
Both	Number	Ratio and proportion	Simplifying a ratio			
Both	Number	Ratio and proportion	Unitary form (1 : n)			
Both	Number	Ratio and proportion	Ratio problems			
Both	Number	Ratio and proportion	Dividing a quantity in a given ratio			

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TIER	TOPIC	HEADING	SUB HEADING	CCEA	CCEA	CCEA
				UNITT3	UNITT4	UNIT T6
	Number		Direct proportion		У	
	Algebra	Algebraic expressions	Evaluating expressions	У		
	Algebra	Algebraic expressions	Simplifying expressions	У		
	Algebra	Algebraic expressions	Multiplying out a pair of brackets	У		
	Algebra	Algebraic expressions	Introduction to factorising	У		
	Algebra	Algebraic expressions	Factorising a quadratic	У		
	Algebra	Algebraic expressions	Factorising a more complex quadratic	У		
	Algebra		Simplifying algebraic fractions	У		
	Algebra	Algebraic expressions	Writing an expression			
	Algebra	Algebraic expressions	Evaluating and simplifying an expression			
	Algebra	Algebraic expressions	Multiplying in algebra			
	Algebra	Algebraic expressions	Factorising			
	Algebra	Algebraic statements	Equation, expression or formula?			У
	Algebra	Linear equations	Methods for solving equations			
	Algebra	Linear equations	Setting up and solving equations	У		
	Algebra	Linear equations	Solving equations with an unknown on both sides	У		
	Algebra	Linear equations	Solving equations which contain brackets	У		
	Algebra		Solving equations with brackets and negative numbers	У		
_	Algebra	Linear equations	Solving equations Setting up equations	У		
	Algebra	Linear equations	Setting up equations Solving equations with an unknown on both sides	У		
Higher		Linear equations	Solving equations with an unknown on both sides  Solving equations containing brackets or fractions	У		
_	Algebra Algebra	Linear equations Formulae	Solving equations containing brackets or fractions  Using formulae	У		
			Using formulae Changing the subject of a formula			У
	Algebra		Changing the subject of a formula  Formulae			У
	Algebra	Formulae Formulae	Writing an algebraic formula			У
	Algebra					У
	Algebra Algebra		Changing the subject of a formula  Cubic functions			У
	Algebra	Further graphs Further graphs	Reciprocal functions			У
	Algebra	Further graphs	Exponential functions			У
	Algebra	Further graphs	Equations and their graphs			У
Higher Higher		Further graphs	Trigonometric functions			У
Higher		Further graphs	Graph of the circle			У
	Algebra	Further graphs	Using graphs to solve a pair of equations			У
	Algebra	Index notation	Using index notation			У
	Algebra		Solving inequalities and showing inequalities on a number line			У
	Algebra	Inequalities	Finding integer solutions to an inequality			У
	Algebra	Inequalities	Solving linear inequalities			У
	Algebra	Inequalities	Inequalities with integer solutions			У
	Algebra	Inequalities	Solving inequalities with two variables graphically			У
	Algebra	Linear graphs	Simple linear graphs			У
	Algebra		Using y = mx + c	У		
	Algebra	Linear graphs	Parallel and perpendicular lines	Y	У	
	Algebra		Introduction to number sequences		У	
	Algebra	Number patterns and sequences	The nth term			
	Algebra	Quadratic equations	Factorising quadratic equations : example	У		
	Algebra	Quadratic equations  Quadratic equations	Solving quadratic equations by completing the square	У		
	Algebra	Quadratic equations  Quadratic equations	The quadratic formula	,	У	
	Algebra	Quadratic equations  Quadratic equations	Equations with algebraic fractions	У	7	
	Algebra	Quadratic equations  Quadratic equations	Problems involving quadratic equations	у		
	Algebra	Quadratic equations  Quadratic graphs	Plotting quadratic graphs	,		у
	Algebra		Solving quadratic equations : example	у		у
	Algebra	Real-life graphs	Real-life plots and graphs	,		y
	Algebra	Simultaneous equations	Solving simultaneous equations using elimination	у	У	,
	Algebra	Simultaneous equations	Solving simultaneous equations using substitution	У	У	
Higher		·	Solving simultaneous equations graphically	y	7	
	Algebra	Simultaneous equations	Setting up and solving simultaneous equations	У	У	
	Algebra	·	Solving a linear and quadratic equation simultaneously	у	У	
	Algebra	Substitution	Substitution in an expression			
	Algebra	Transformation of functions	Types of transformations			
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TIER	TOPIC	HEADING	SUB HEADING	HIGHER CCEA UNIT T3	HIGHER CCEA UNITT4	HIGHER CCEA UNITT6
Higher	Algebra	Transformation of functions	Translation			
Both	Algebra	Trial and improvement	Trial and improvement			
Higher	Algebra	Trial and improvement	Finding an approximate solution using trial and improvement			
Both	Geometry and Measure	Angles and lines	Types of angles			
Both	Geometry and Measure	Angles and lines	Estimating the size of angles			
Both	Geometry and Measure	Angles and lines	Measuring angles and lengths			
Both	Geometry and Measure	Angles and lines	Parallel and perpendicular lines			
Both	Geometry and Measure	Angles and lines	Constructing an angle			
Both	Geometry and Measure	Angles and lines	Constructing a triangle			
Both	Geometry and Measure	Angles and lines	Angles on a straight line and angles around a point			
Higher	Geometry and Measure	Angles and polygons	Triangles and quadrilaterals			
Higher	Geometry and Measure	Angles and polygons	Interior and exterior angles in a polygon			
Higher	Geometry and Measure	Angles and polygons	Corresponding and alternate angles			
Higher	Geometry and Measure	Angles and polygons	Proving angle facts			
Higher	Geometry and Measure	Angles and polygons	Bearings			
Both	Geometry and Measure	Shapes and angles	Angle facts: triangles			
Both	Geometry and Measure	Shapes and angles	Angle facts: quadrilaterals			
Both	Geometry and Measure	Shapes and angles	Interior and exterior angles			
Both	Geometry and Measure	Shapes and angles	Parallel lines			
Both	Geometry and Measure	Shapes and angles	Bearings			
Both	Geometry and Measure	Circles	The circle			
Both	Geometry and Measure	Circles	Circumference and area			
Higher	Geometry and Measure	Circles	Circles and arcs			
Higher	Geometry and Measure	Circles	Sectors and segments			
Higher	Geometry and Measure	Circles	Circle theorems		У	
Higher	Geometry and Measure	Circles	Circle theorem: examples		У	
Both	Geometry and Measure	Construction and loci	Constructing a triangle			
Both	Geometry and Measure	Construction and loci	Constructing other shapes			
Both	Geometry and Measure	Construction and loci	Constructing a perpendicular bisector of a line			
Both	Geometry and Measure	Construction and loci	Bisecting an angle			
Both	Geometry and Measure	Construction and loci	Constructing the perpendicular from a point to a line			
Both	Geometry and Measure	Construction and loci	Constructing the perpendicular to a line from a point on the line			
Both	Geometry and Measure	Construction and loci	Constructing the locus of points from a fixed point			
Both	Geometry and Measure	Construction and loci	Constructing the locus of points from a fixed line			
Both	Geometry and Measure	Construction and loci	Constructing a region that satisfies a given set of conditions			
Both	Geometry and Measure	Co-ordinates	Understanding co-ordinates			
Higher	Geometry and Measure	Co-ordinates	3-D co-ordinates			
Both	Geometry and Measure	Measure	Imperial and metric units			
Both	Geometry and Measure	Measure	Convert metric units			
Both	Geometry and Measure	Measure	Speed, distance and time			
Both	Geometry and Measure	Measure	Mass, density and volume			
Higher	Geometry and Measure	Measure	Converting metric units			
Higher	Geometry and Measure	Measure	Converting imperial units			
Higher	Geometry and Measure	Measure	Speed, distance and time conversion			
Higher	Geometry and Measure	Measure	Mass, density and volume conversion			
Higher	Geometry and Measure	Measure	Length, area or volume expressions			У
Higher	Geometry and Measure	Measure	Upper and lower bounds			
Both	Geometry and Measure	Measuring from scales	Measurements and scales			
Both	Geometry and Measure	Measuring from scales	Time and units			
Both	Geometry and Measure	Measuring from scales	Timetables			
Both	Geometry and Measure	Perimeter and area	Calculating perimeter			
Both	Geometry and Measure	Perimeter and area	Calculating area			
Both	Geometry and Measure	Perimeter and area	Compound shapes			
Both	Geometry and Measure	Perimeter and area	Converting units			
Higher	Geometry and Measure	Perimeter and area	Area and perimeter of 2-d shapes	У		
Higher	Geometry and Measure	Perimeter and area	Area and circumference of a circle	У		
Higher	Geometry and Measure	Perimeter and area	Converting between units of measure	У		
Higher	Geometry and Measure	Volume and surface area	Volume of 3-D shapes			
Higher	Geometry and Measure	Volume and surface area	Converting units of volume			
Higher	Geometry and Measure	Volume and surface area	Surface area of a prism and a cylinder			у

Page	TIER	TOPIC	HEADING	SUB HEADING	HIGHER CCEA UNIT T3	HIGHER CCEA UNIT T4	HIGHER CCEA UNITT6
Section of Control of	Higher	Geometry and Measure	Volume and surface area	Surface area of a sphere and a cone			у
Section   Sect	Both	Geometry and Measure	3-D shapes	Names and nets of common shapes			
	Both	Geometry and Measure	3-D shapes	Front and side elevations			
Secure of the Secure of	Both	Geometry and Measure	3-D shapes	Using elevations to draw shapes			
Comment	Both	Geometry and Measure	3-D shapes	Planes of symmetry			
Commerce of Microson	Both	Geometry and Measure	Pythagoras' theorem	Finding the hypotenuse using Pythagoras' theorem	У		
Section   Processing of Marcanes   Profession of Marcanes and Industry and Marcanes   Profession of Marcanes   Professi	Both	Geometry and Measure	Pythagoras' theorem	Finding a shorter side using Pythagoras' theorem	У		
Name of Comments on Character Character Comments on Character	Both	Geometry and Measure	Pythagoras' theorem	Calculating the distance between two points	У		
Object         Control of Management         Control of	Both	Geometry and Measure		Pythagoras' theorem and real-life problems	У		
Space of Sources and Message Sources and Source of Sources and Message Sources and	Higher	Geometry and Measure	Pythagoras' theorem	3-dimensional shapes		У	
Name of Security and Messace Security and Language and Congruence Security and Messace Security and Language and Congruence Security and Messace Security an	Higher	Geometry and Measure	Similarity and congruence	Calculating sides and areas of similar shapes			У
Section   Comment of Meanum	Higher	Geometry and Measure	Similarity and congruence	Calculating volumes of similar 3-d shapes			У
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Section Concerns and Measures Management of Section Se	Both	Geometry and Measure					
Security and Missaure Sales were and value Conventing units of volume Occurring units of volume	Both	Geometry and Measure	Similarity, congruence and symmetry	Tessellation			
Region Comerty and Massaure Transformations Assistance area of a presin Comment of the Comment o	Both	Geometry and Measure	Surface area and volume	Calculating volume of 3-d shapes			
Nights Georetry and Measure Treatformations Relateston	Both	Geometry and Measure	Surface area and volume	Converting units of volume			
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Fig. Section of Measure Continues on the State Continues on the Stat	Higher	Geometry and Measure	Transformations	Rotation			У
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TIER	TOPIC	HEADING	SUB HEADING	HIGHER CCEA UNITT3	HIGHER CCEA UNITT4	HIGHER CCEA UNITT6
Both	Statistics and Probability	Probability	Two-way probability tables			
Both	Statistics and Probability	Probability	Mutually exclusive events			
Both	Statistics and Probability	Probability	Relative frequency			
Both	Statistics and Probability	Probability	Probability and sample spaces			У
Higher	Statistics and Probability	Probability	Mutually exclusive events			У
Higher	Statistics and Probability	Probability	Independent events			У
Higher	Statistics and Probability	Probability	Probability trees			у
Higher	Statistics and Probability	Probability	Relative frequency			У