

WJEC GCSE MATHS EXAMINATION BOARD COVERAGE

Education	, Anywhere	e, Anytime
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TIER	TOPIC	HEADING	SUB HEADING	WJEC UNIT I	WJEC UNIT 2	WJEC Unit 3
Both	Number	Integers	Ordering numbers		у	
Both	Number	Integers	Rounding numbers	у	у	У
Both	Number	Integers	Adding and subtracting whole numbers	У		
Both	Number	Integers	Dividing whole numbers	у		
Both	Number	Integers	BIDMAS	у		
Both	Number	Integers	Inverse operations			
Both	Number	Negative numbers	Understanding negative numbers	у		
Both	Number	Decimals	integers and decimals : the four basic operations	у	у	У
Both	Number	Decimals	Ordering decimals		у	
Both	Number	Decimals	Using place value in calculating with decimals		у	
Both	Number	Decimals	Order of operation : BIDMAS	У	у	У
Both	Number	Decimals	Rounding decimals		у	
Both	Number	Decimals	Estimating decimals		у	
Both	Number	Decimals	Recognising their corresponding fractions	У		
Both	Number	Factors, primes and powers	Multiples, factors and prime numbers		у	
Both	Number	Factors, primes and powers	Highest common factor (hcf) and lowest common multiple (lcm)		у	
Both	Number	Factors, primes and powers	Squares, cubes and roots		у	
Both	Number	Factors, primes and powers	Index form		у	
Both	Number	Factors, primes and powers	Reciprocals		у	
Both	Number	Fractions	Equivalent fractions	У	у	
Both	Number	Fractions	Adding and subtracting fractions	У	У	
Both	Number	Fractions	Multiplying and dividing fractions	У	У	
Both	Number	Fractions	Comparing fractions	У	У	
Both	Number	Fractions	Improper fractions and mixed numbers	У	у	
Both	Number	Fractions	Performing calculations with mixed numbers	у	у	
Both	Number	Fractions	Solving problems involving fractions	у	у	
Both	Number	Fractions, decimals and percentages	Converting fractions	у	у	
Both	Number	Fractions, decimals and percentages	Converting decimals	У	у	
Both	Number	Fractions, decimals and percentages	Converting percentages	У	у	
Both	Number	Fractions, decimals and percentages	Ordering decimals, fractions and percentages		у	
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	У
Higher	Number	Index notation and surds	Surds		У	
Both	Number	Percentages	Writing one quantity as a percentage of another	У	У	
Both	Number	Percentages	Calculating the percentage of an amount	У	У	
Both	Number	Percentages	Increasing or decreasing an amount by a percentage	У	У	
Both	Number	Percentages	Real-life percentage problems	У	У	
Higher	Number	Percentages	Percentage of a quantity	У	У	
Higher	Number	Percentages	Multiplier use in calculations	У	У	
Higher	Number	Percentages	Profit and loss	У	У	
Higher	Number	Percentages	Compound and simple interest	У	У	
Higher	Number	Percentages	Depreciation	У	у	
Higher	Number	Percentages	Reverse percentages	У	У	
Higher	Number	Ratio and proportion	Simplifying a ratio		У	
Higher	Number	Ratio and proportion	Unitary form		У	
Higher	Number	Ratio and proportion	Solving ratio problems		У	
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		У	
Both	Number	Ratio and proportion	Unitary form (1 : n)		у	
Both	Number	Ratio and proportion	Ratio problems		У	
Both	Number	Ratio and proportion	Dividing a quantity in a given ratio		У	

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TIER	TOPIC	HEADING	SUB HEADING	UNITI	UNIT 2	UNIT 3
Both	Number	Ratio and proportion	Direct proportion		у	
Higher	Algebra	Algebraic expressions	Evaluating expressions		у	
Higher	Algebra	Algebraic expressions	Simplifying expressions		у	
Higher	Algebra	Algebraic expressions	Multiplying out a pair of brackets		у	
Higher	Algebra	Algebraic expressions	Introduction to factorising		у	
Higher	Algebra	Algebraic expressions	Factorising a quadratic			У
Higher	Algebra	Algebraic expressions	Factorising a more complex quadratic			У
Higher	Algebra	Algebraic expressions	Simplifying algebraic fractions		у	
Both	Algebra	Algebraic expressions	Writing an expression		У	
Both	Algebra	Algebraic expressions	Evaluating and simplifying an expression		У	
Both	Algebra	Algebraic expressions	Multiplying in algebra		у	
Both	Algebra	Algebraic expressions	Factorising		У	
Both	Algebra	Algebraic statements	Equation, expression or formula?		У	
Both	Algebra	Linear equations	Methods for solving equations		у	У
Both	Algebra	Linear equations	Setting up and solving equations		У	У
Both	Algebra	Linear equations	Solving equations with an unknown on both sides		У	У
	Algebra	Linear equations	Solving equations which contain brackets		У	У
Both	Algebra	Linear equations	Solving equations with brackets and negative numbers		У	У
	Algebra	Linear equations	Solving equations		У	У
	Algebra	Linear equations	Setting up equations		у	У
	Algebra	Linear equations	Solving equations with an unknown on both sides		У	У
	Algebra	Linear equations	Solving equations containing brackets or fractions		У	У
Higher	Algebra	Formulae	Using formulae	У		У
Higher	Algebra	Formulae	Changing the subject of a formula		у	
	Algebra	Formulae	Formulae	У		У
	Algebra	Formulae	Writing an algebraic formula	У		У
	Algebra	Formulae	Changing the subject of a formula		У	
	Algebra	Further graphs	Cubic functions		У	
	Algebra	Further graphs	Reciprocal functions		У	
	Algebra	Further graphs	Exponential functions		У	
	Algebra	Further graphs	Equations and their graphs		У	
	Algebra	Further graphs	Trigonometric functions			
	Algebra	Further graphs	Graph of the circle			
	Algebra	Further graphs	Using graphs to solve a pair of equations		У	
	Algebra	Index notation	Using index notation		У	
	Algebra	Inequalities	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 Using v = mv + c		У	
	Algebra	Linear graphs	Using y = mx + c		У	
	Algebra	Linear graphs Number patterns and sequences	Parallel and perpendicular lines		У	
	Algebra	Number patterns and sequences	Introduction to number sequences The nth term	У		
	Algebra	Number patterns and sequences	The nth term Eactorising quadratic equations: example	У		· ·
	Algebra	Quadratic equations Ouadratic equations	Factorising quadratic equations : example Solving quadratic equations by completing the square			У
	Algebra	Quadratic equations Quadratic equations	Solving quadratic equations by completing the square The quadratic formula			У
	Algebra	Quadratic equations Ouadratic equations	The quadratic formula Equations with algebraic fractions			У
	Algebra	Quadratic equations Quadratic equations	Equations with algebraic fractions Problems involving quadratic equations			У
	Algebra	Quadratic equations Quadratic graphs			V	У
	Algebra Algebra	Quadratic graphs Quadratic graphs	Plotting quadratic graphs Solving quadratic equations : example		У	У
	Algebra	Real-life graphs	Real-life plots and graphs	V		У
	Algebra	Simultaneous equations	Solving simultaneous equations using elimination	У	. V	У
		Simultaneous equations Simultaneous equations			У	
	Algebra	Simultaneous equations Simultaneous equations	Solving simultaneous equations using substitution Solving simultaneous equations graphically		У	
	Algebra	Simultaneous equations Simultaneous equations			У	
	Algebra Algebra	Simultaneous equations Simultaneous equations	Setting up and solving simultaneous equations Solving a linear and quadratic equation simultaneously		У	V
	Algebra	Substitution	Substitution in an expression		V	У
	Algebra	Transformation of functions	Types of transformations		У	
	Algebra	Transformation of functions	Translation		У	
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TIER	TOPIC	HEADING	SUB HEADING	UNITI	UNIT 2	UNIT 3
Both	Algebra	Trial and improvement	Trial and improvement			У
Higher	Algebra	Trial and improvement	Finding an approximate solution using trial and improvement			У
Both	Geometry and Measure	Angles and lines	Types of angles		У	
Both	Geometry and Measure	Angles and lines	Estimating the size of angles		У	
Both	Geometry and Measure	Angles and lines	Measuring angles and lengths	у		
Both	Geometry and Measure	Angles and lines	Parallel and perpendicular lines		у	
Both	Geometry and Measure	Angles and lines	Constructing an angle		У	
Both	Geometry and Measure	Angles and lines	Constructing a triangle		У	
Both	Geometry and Measure	Angles and lines	Angles on a straight line and angles around a point		У	
Higher	Geometry and Measure	Angles and polygons	Triangles and quadrilaterals		У	
Higher	Geometry and Measure	Angles and polygons	Interior and exterior angles in a polygon			У
	Geometry and Measure	Angles and polygons	Corresponding and alternate angles		У	
	Geometry and Measure	Angles and polygons	Proving angle facts		У	
	Geometry and Measure	Angles and polygons	Bearings	У		
	Geometry and Measure	Shapes and angles	Angle facts: triangles		У	
	Geometry and Measure	Shapes and angles	Angle facts: quadrilaterals		У	
	Geometry and Measure	Shapes and angles	Interior and exterior angles Parallel lines		У	У
	Geometry and Measure	Shapes and angles	Parallel lines Bearings	N.	У	
	Geometry and Measure Geometry and Measure	Shapes and angles Circles	Bearings The circle	У	V	
	Geometry and Measure	Circles	Circumference and area	У	У	
	Geometry and Measure	Circles	Circles and arcs	у		
	Geometry and Measure	Circles	Sectors and segments	У		
	Geometry and Measure	Circles	Circle theorems	1	٧	
	Geometry and Measure	Circles	Circle theorem: examples		y	
	Geometry and Measure	Construction and loci	Constructing a triangle		,	у
	Geometry and Measure	Construction and loci	Constructing other shapes			у
	Geometry and Measure	Construction and loci	Constructing a perpendicular bisector of a line			У
	Geometry and Measure	Construction and loci	Bisecting an angle			у
Both	Geometry and Measure	Construction and loci	Constructing the perpendicular from a point to a line			У
Both	Geometry and Measure	Construction and loci	Constructing the perpendicular to a line from a point on the line			у
Both	Geometry and Measure	Construction and loci	Constructing the locus of points from a fixed point			У
Both	Geometry and Measure	Construction and loci	Constructing the locus of points from a fixed line			У
Both	Geometry and Measure	Construction and loci	Constructing a region that satisfies a given set of conditions			У
Both	Geometry and Measure	Co-ordinates	Understanding co-ordinates		У	
Higher	Geometry and Measure	Co-ordinates	3-D co-ordinates			
Both	Geometry and Measure	Measure	Imperial and metric units	у	у	У
Both	Geometry and Measure	Measure	Convert metric units	у	У	У
Both	Geometry and Measure	Measure	Speed, distance and time	у		У
Both	Geometry and Measure	Measure	Mass, density and volume	У		у
Higher	Geometry and Measure	Measure	Converting metric units	у	У	У
Higher	Geometry and Measure	Measure	Converting imperial units	у	У	У
	Geometry and Measure	Measure	Speed, distance and time conversion	У	У	У
	Geometry and Measure	Measure	Mass, density and volume conversion	У	У	У
	Geometry and Measure	Measure	Length, area or volume expressions	У	У	У
	Geometry and Measure	Measure	Upper and lower bounds		У	У
	Geometry and Measure	Measuring from scales	Measurements and scales Time and units	У	У	У
	Geometry and Measure	Measuring from scales	Time and units	У	У	У
	Geometry and Measure	Measuring from scales	Timetables Calculating porimeter	У	У	У
	Geometry and Measure	Perimeter and area	Calculating perimeter	У		У
	Geometry and Measure	Perimeter and area	Compound shapes	У		У
	Geometry and Measure	Perimeter and area Perimeter and area	Converting units	У		У
	Geometry and Measure Geometry and Measure	Perimeter and area Perimeter and area	Area and perimeter of 2-d shapes	y		y
	Geometry and Measure	Perimeter and area	Area and circumference of a circle	,		y
	Geometry and Measure	Perimeter and area	Converting between units of measure	y		y
	Geometry and Measure	Volume and surface area	Volume of 3-D shapes	у		У
	Geometry and Measure	Volume and surface area	Converting units of volume	У У		У
	Geometry and Measure	Volume and surface area	Surface area of a prism and a cylinder	V		У
	Geometry and Measure	Volume and surface area	Surface area of a sphere and a cone	У		У
	Geometry and Measure	3-D shapes	Names and nets of common shapes	,	у	,

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Page	TIER	TOPIC	HEADING	SUB HEADING			UNIT 3
Page	Both	Geometry and Measure	3-D shapes	Front and side elevations		У	
Section Sect	Both	Geometry and Measure	3-D shapes	Using elevations to draw shapes		у	
Page Control of Michael	Both	Geometry and Measure	3-D shapes	Planes of symmetry		У	
Section Sect	Both	Geometry and Measure	Pythagoras' theorem	Finding the hypotenuse using Pythagoras' theorem			У
Page	Both	Geometry and Measure	Pythagoras' theorem	Finding a shorter side using Pythagoras' theorem			У
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Control Performance Performa	Both	Geometry and Measure	Pythagoras' theorem	Pythagoras' theorem and real-life problems			У
Section of Section And Decision of Marchane of Section	Higher	Geometry and Measure	Pythagoras' theorem	3-dimensional shapes			У
Name Commonly on Measure Seminary and Indiana Commonly on Commonly on Measure Seminary and Indiana Seminary and In	Higher	Geometry and Measure	Similarity and congruence	Calculating sides and areas of similar shapes			У
Page Committy and Measure Seminary and Neasure Seminary and Seminary and Neasure Seminary and Seminary and Neasure Seminary and Seminary and Neasure Seminary and Seminary and Seminary and Seminary and Seminary and S	Higher	Geometry and Measure	Similarity and congruence	Calculating volumes of similar 3-d shapes			У
Section Sect	Higher	Geometry and Measure	Similarity and congruence	Volume and area of similar solids: example			У
Security and Measures Security Annual Measures Security Annual Measures Security Annual Measures Market Security Annual Measures	Higher	Geometry and Measure	Similarity and congruence	Congruence			У
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Control of Michael Seminary Authorized	Both	Geometry and Measure	Similarity, congruence and symmetry	Line symmetry		У	
Secretary and Measure Secr	Both	Geometry and Measure	Similarity, congruence and symmetry	Rotational symmetry		У	
Someting and Measure (Both	Geometry and Measure	Similarity, congruence and symmetry	Tessellation		У	
Secretary and Manauro Control		·			У		У
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Higher Geometry and Measure Trigonometry The cosine rule							У
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Higher Statistics and Probability Averages Inter-quartile range and stem and leaf diagrams y y y y y y y y y y y y y y y y y y y			-		,		•
Higher Statistics and Probability Averages Moving averages y y y y y y y y y y y y y y y y y y y			-		,		
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TIER	TOPIC	HEADING	SUB HEADING	WJEC Unit i	WJEC Unit 2	WJEC Unit 3
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	