

OCR GCSE MATHS EXAMINATION BOARD COVERAGE

TIER	TOPIC	HEADING	SUB HEADING	OCR Unit a	OCR Unit B	OCR Unit c
Both	Number	Integers	Ordering numbers	OIIII II	у	у
Both	Number	Integers	Rounding numbers	У	у	У
Both	Number	Integers	Adding and subtracting whole numbers	У		У
Both	Number	Integers	Dividing whole numbers	у		У
Both	Number	Integers	BIDMAS	У		У
Both	Number	Integers	Inverse operations	У		У
Both	Number	Negative numbers	Understanding negative numbers	У		У
Both	Number	Decimals	integers and decimals : the four basic operations		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		
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	
Both	Number	Fractions	Adding and subtracting fractions		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	
Both	Number	Fractions, decimals and percentages	Converting decimals		у	
Both	Number	Fractions, decimals and percentages	Converting percentages		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
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	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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Section		TOPIC	HEADING	SUB HEADING			UNITC
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Section					,		У
Description			·				У
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Index					У		У
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bilds Judacian Application Application Y Image: Composition Y Image: Composi							У
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Applied Appl					·		У
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Section Agencies Descriptions of the section with an undercome on both bales. Applicat Description Solving equations with an undercome on both bales. Y			Linear equations		у		
No. 1, Agebra	Both	Algebra	Linear equations	Setting up and solving equations	У		
Selfon Agencia Internar equations Solfong equations with practices and negative numbers y learner equations Solfong equations with practices and negative numbers y learner equations Solfong equations and an individual on both sides y learner equations Solfong equations with an individual on both sides y learner equations Solfong equations with an individual on both sides y learner equation in Solfong equations with an individual on both sides y learner equation in Solfong equations with an individual on both sides y learner equation in Solfong equations with an individual on both sides y learner equation in Solfong equations with an individual on both sides y learner equation in Solfong equations containing brackers of fractions y learner equation in Solfong equations containing brackers of fractions y learner equation in Solfong equations containing brackers of fractions y learner equation in Solfong equations containing brackers of fractions y learner equation in Solfong equations extending brackers of fractions y learner equation in Solfong equations containing brackers of fractions y learner equation in Solfong equations	Both	Algebra	Linear equations	Solving equations with an unknown on both sides	у		
Ngere Agebrs Union equations Solving equations y P	Both	Algebra	Linear equations	Solving equations which contain brackets	у		
Nighter Agebra Univer recustors Setting selequations y setting selequations y selections y y y selections y selections y selections y y y selections y selections y selections y y y selections y selections y y y y y selections y selections y y y y y y y y y y y y y y y y y y y	Both	Algebra	Linear equations	Solving equations with brackets and negative numbers	У		
Higher Agricus Interviewations Solving equations with an unknown on both sides	Higher	Algebra	Linear equations	Solving equations	У		
Nights Algebra Union recursions Solving equations containing, brackets or fractions	Higher	Algebra	Linear equations	Setting up equations	У		
Figure Algebra Formulae Using formulae Changing the subject of a formulae V	Higher	Algebra	Linear equations	Solving equations with an unknown on both sides	У		
Righter Algebra Formulae Formulae Formulae Formulae Formulae Pormulae Formulae Formulae Formulae Formulae Pormulae Pormu	Higher	Algebra	Linear equations	Solving equations containing brackets or fractions	У		
Agestra Formulae Formulae Formulae Pormulae	Higher	Algebra	Formulae	Using formulae	У		
Soth Agebra Comulae Verticing an algebraic formula y Agebra Changing the subject of a formula y Agebra Carbon Section	Higher	Algebra	Formulae	Changing the subject of a formula	У		
Doth Agebra Formulate	Both	Algebra	Formulae	Formulae	У		
Higher Algebra Further graphs Reciprocal functions Higher Algebra Further graphs Reciprocal functions Higher Algebra Further graphs Supponential functions Higher Algebra Further graphs Equations and their graphs Higher Algebra Further graphs Equations and their graphs Higher Algebra Further graphs Trigonometric functions Higher Algebra Further graphs Trigonometric functions Higher Algebra Further graphs Using graphs to solve a pair of equations Both Algebra Further graphs Using graphs to solve a pair of equations Both Algebra Index rectation Using index notation Both Algebra Index rectation Using index notation Both Algebra Inequalities Solving inequalities and showing inequalities on a number line V 1 Higher Algebra Inequalities Solving inequalities and showing inequalities on a number line V 2 Higher Algebra Inequalities Solving inequalities with integer solutions Higher Algebra Inequalities Inequalities Inequalities with integer solutions Higher Algebra Inequalities Inequalities With integer solutions Higher Algebra Unear graphs Solving inequalities with two variables graphically V 1 Higher Algebra Unear graphs Solving inequalities with two variables graphically V 2 Higher Algebra Unear graphs Solving inequalities with two variables graphically V 3 Higher Algebra Unear graphs Solving inequalities with two variables graphically V 3 Higher Algebra Unear graphs Solving inequalities with two variables graphically V 3 Higher Algebra Unear graphs Solving inequalities with two variables graphically V 3 Higher Algebra Unear graphs Solving inequalities with two variables graphically V 3 Higher Algebra Unear graphs Solving inequalities with two variables graphically V 3 Higher Algebra Quadratic equations Further Algebra Guadratic equations Further Algebra Guadratic equat	Both	Algebra	Formulae	Writing an algebraic formula	У		
Figher Agebra Further graphs Exponential functions Figher Agebra Further graphs Further graph	Both	Algebra	Formulae	Changing the subject of a formula	У		
Higher Agebra Further graphs Equations and their graphs Higher Agebra Further graphs Graph of the circle Sorth Agebra Further graphs Graph of the circle Sorth Agebra Index notation Using graphs to solve a pair of equations Both Agebra Index notation Using index notation Both Agebra Under graphs Both Agebra Under graphs Both Agebra Under graphs Both Agebra Under graphs Both Agebra Ouder g	Higher	Algebra	Further graphs	Cubic functions			У
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Solving Inequalities Solving Inequalities and showing inequalities on a number line Y						V	У
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TIER	TOPIC	HEADING	SUB HEADING	UNIT A	UNITB	UNIT C
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	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		
	Geometry and Measure	Angles and lines	Constructing a triangle	У		
	Geometry and Measure	Angles and lines	Angles on a straight line and angles around a point		У	
	Geometry and Measure	Angles and polygons	Triangles and quadrilaterals		У	
	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 Angle factor triangles	У	.,	
	Geometry and Measure	Shapes and angles	Angle facts: triangles		У	
	Geometry and Measure	Shapes and angles	Angle facts: quadrilaterals		У	
	Geometry and Measure Geometry and Measure	Shapes and angles Shapes and angles	Interior and exterior angles Parallel lines		У	
	Geometry and Measure	Shapes and angles Shapes and angles	Bearings	У	У	
	Geometry and Measure	Circles	The circle	4	У	
	Geometry and Measure	Circles	Circumference and area		У	у
	Geometry and Measure	Circles	Circles and arcs		У	у
	Geometry and Measure	Circles	Sectors and segments		у	у
	Geometry and Measure	Circles	Circle theorems		У	•
	Geometry and Measure	Circles	Circle theorem: examples		У	
	Geometry and Measure	Construction and loci	Constructing a triangle	У		
Both	Geometry and Measure	Construction and loci	Constructing other shapes	у		
Both	Geometry and Measure	Construction and loci	Constructing a perpendicular bisector of a line	У		
Both	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			У
Both	Geometry and Measure	Measure	Imperial and metric units	У		У
Both	Geometry and Measure	Measure	Convert metric units	У		У
Both	Geometry and Measure	Measure	Speed, distance and time			У
Both	Geometry and Measure	Measure	Mass, density and volume			У
	Geometry and Measure	Measure	Converting metric units	У		У
	Geometry and Measure	Measure	Converting imperial units	У		У
	Geometry and Measure	Measure	Speed, distance and time conversion			У
	Geometry and Measure	Measure	Mass, density and volume conversion			У
	Geometry and Measure	Measure	Length, area or volume expressions			У
	Geometry and Measure	Measuring from scales	Upper and lower bounds Measurements and scales		.,	У
	Geometry and Measure Geometry and Measure	Measuring from scales Measuring from scales	Measurements and scales Time and units		У	У
	Geometry and Measure	Measuring from scales	Time and units Timetables		У	
	Geometry and Measure	Perimeter and area	Calculating perimeter		y	у
	Geometry and Measure	Perimeter and area	Calculating perimeter Calculating area			у
	Geometry and Measure	Perimeter and area	Compound shapes			У
	Geometry and Measure	Perimeter and area	Converting units			У
	Geometry and Measure	Perimeter and area	Area and perimeter of 2-d shapes			У
	Geometry and Measure	Perimeter and area	Area and circumference of a circle			у
	Geometry and Measure	Perimeter and area	Converting between units of measure			У
	Geometry and Measure	Volume and surface area	Volume of 3-D shapes			у
	Geometry and Measure	Volume and surface area	Converting units of volume			у
	Geometry and Measure	Volume and surface area	Surface area of a prism and a cylinder			У
	Geometry and Measure	Volume and surface area	Surface area of a sphere and a cone			У
Both	Geometry and Measure	3-D shapes	Names and nets of common shapes			у
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TIER	TOPIC	HEADING	SUB HEADING	OCR Unit a	OCR Unit B	OCR Unit c
Both	Geometry and Measure	3-D shapes	Front and side elevations	Citif II	31111 5	у
Both	Geometry and Measure	3-D shapes	Using elevations to draw shapes			у
Both	Geometry and Measure	3-D shapes	Planes of symmetry			У
Both	Geometry and Measure	Pythagoras' theorem	Finding the hypotenuse using Pythagoras' theorem	у		
Both	Geometry and Measure	Pythagoras' theorem	Finding a shorter side using Pythagoras' theorem	у		
Both	Geometry and Measure	Pythagoras' theorem	Calculating the distance between two points	у		
Both	Geometry and Measure	Pythagoras' theorem	Pythagoras' theorem and real-life problems	у		
Higher	Geometry and Measure	Pythagoras' theorem	3-dimensional shapes			У
Higher	Geometry and Measure	Similarity and congruence	Calculating sides and areas of similar shapes		У	У
Higher	Geometry and Measure	Similarity and congruence	Calculating volumes of similar 3-d shapes		У	У
Higher	Geometry and Measure	Similarity and congruence	Volume and area of similar solids: example		У	У
Higher	Geometry and Measure	Similarity and congruence	Congruence		У	
Both	Geometry and Measure	Similarity, congruence and symmetry	Similarity and congruence		У	
Both	Geometry and Measure	Similarity, congruence and symmetry	Line symmetry		У	
Both	Geometry and Measure	Similarity, congruence and symmetry	Rotational symmetry		У	
Both	Geometry and Measure	Similarity, congruence and symmetry	Tessellation		У	
Both	Geometry and Measure	Surface area and volume	Calculating volume of 3-d shapes			У
Both	Geometry and Measure	Surface area and volume	Converting units of volume			У
Both	Geometry and Measure	Surface area and volume	Calculating the surface area of a prism			У
Higher	Geometry and Measure	Transformations	Rotation		У	
Higher	Geometry and Measure	Transformations	Reflection		У	
Higher	Geometry and Measure	Transformations	Translation		У	
Higher	Geometry and Measure	Transformations	Enlargement		У	У
Higher	Geometry and Measure	Transformations	Multiple transformations and describing these as a single transformation		У	
Both	Geometry and Measure	Transformations	Rotation		У	
Both	Geometry and Measure	Transformations	Reflection		У	
Both	Geometry and Measure	Transformations	Translation		У	
Both	Geometry and Measure	Transformations	Enlargement		У	У
Both	Geometry and Measure	Transformations	Multiple transformations		У	
Higher	Geometry and Measure	Trigonometry	The three trigonometric ratios	у		
Higher	Geometry and Measure	Trigonometry	Using trigonometry to find a length	У		
Higher	Geometry and Measure	Trigonometry	Using trigonometry to find angles	У		
Higher	Geometry and Measure	Trigonometry	Using trigonometry to solve problems	У		
Higher	Geometry and Measure	Trigonometry	Using trigonometry in 3-d shapes			У
Higher (Geometry and Measure	Trigonometry	The area of a triangle			У
Higher (Geometry and Measure	Trigonometry	The sine rule			У
Higher	Geometry and Measure	Trigonometry	The cosine rule			У
Higher	Geometry and Measure	Vectors	Vector quantities		У	
Higher	Geometry and Measure	Vectors	The laws of vector addition		У	
Higher	Geometry and Measure	Vectors	Parallel vectors		У	
Higher	Geometry and Measure	Vectors	Solving geometric problems involving vectors		У	
Both S	Statistics and Probability	Averages	Comparing distributions	У		
Both S	Statistics and Probability	Averages	Mean, median, mode and range	У		
Both S	Statistics and Probability	Averages	Stem and leaf diagrams	У		
Both S	Statistics and Probability	Averages	Ungrouped frequency tables	У		
		Averages	Grouped frequency tables	У		
		Averages	Inter-quartile range and stem and leaf diagrams	У		
		Averages	Moving averages	У		
	Statistics and Probability	Collecting data	Collecting and recording data	У		
	Statistics and Probability	Collecting data	Two-way tables	У		
	Statistics and Probability	Collecting data	Questionnaires	У		
	Statistics and Probability	Collecting data	Sampling	У		
	·	Presenting data	Bar charts, pie charts, line graphs, frequency diagrams, histograms and frequency polygons	У		
		Presenting data	Pictograms	У		
	Statistics and Probability	Presenting data	Cumulative frequency graphs	У		
	Statistics and Probability	Presenting data	Box plots, data comparison and histograms with unequal widths	У		
		Presenting data	Scatter graphs and correlations		У	
	•	Probability	The probability scale and writing probabilities			У
Both S		Probability	Two-way probability tables			У
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	Statistics and Probability Statistics and Probability	Probability Probability	Mutually exclusive events Relative frequency			,

TIER	TOPIC	HEADING	SUB HEADING	OCR Unit a	OCR Unit b	OCR Unit c
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