

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

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Both	Ratio, proportion and rates of change	Ratio and proportion	Ratio problems	y	y	y
Both	Ratio, proportion and rates of change	Ratio and proportion	Dividing a quantity in a given ratio	y	y	y
Both	Ratio, proportion and rates of change	Ratio and proportion	Direct proportion			y
Higher	Algebra	Algebraic expressions	Evaluating expressions		y	y
Higher	Algebra	Algebraic expressions	Simplifying expressions		y	y
Both	Algebra	Algebraic expressions	Multiplying out a pair of brackets		y	y
Higher	Algebra	Algebraic expressions	Introduction to factorising		y	y
Both	Algebra	Algebraic expressions	Factorising a quadratic		y	y
Higher	Algebra	Algebraic expressions	Factorising a more complex quadratic		y	y
Higher	Algebra	Algebraic expressions	Simplifying algebraic fractions		y	y
Both	Algebra	Algebraic expressions	Writing an expression		y	y
Both	Algebra	Algebraic expressions	Evaluating and simplifying an expression		y	y
Both	Algebra	Algebraic expressions	Multiplying in algebra		y	y
Both	Algebra	Algebraic expressions	Factorising		y	y
Both	Algebra	Algebraic statements	Equation, expression or formula?	y	y	y
Both	Algebra	Linear equations	Methods for solving equations		y	y
Both	Algebra	Linear equations	Setting up and solving equations		y	y
Both	Algebra	Linear equations	Solving equations with an unknown on both sides		y	y
Both	Algebra	Linear equations	Solving equations which contain brackets		y	y
Both	Algebra	Linear equations	Solving equations with brackets and negative numbers		y	y
Higher	Algebra	Linear equations	Solving equations		y	y
Higher	Algebra	Linear equations	Setting up equations		y	y
Higher	Algebra	Linear equations	Solving equations with an unknown on both sides		y	y
Higher	Algebra	Linear equations	Solving equations containing brackets or fractions		y	y
Higher	Algebra	Formulae	Using formulae		y	y
Higher	Algebra	Formulae	Changing the subject of a formula		y	
Both	Algebra	Formulae	Formulae		y	y
Both	Algebra	Formulae	Writing an algebraic formula		y	y
Both	Algebra	Formulae	Changing the subject of a formula		y	
Both	Algebra	Further graphs	Cubic functions			y
Both	Algebra	Further graphs	Reciprocal functions			y
Higher	Algebra	Further graphs	Exponential functions			y
Higher	Algebra	Further graphs	Equations and their graphs			y
Higher	Algebra	Further graphs	Trigonometric functions			y
Higher	Algebra	Further graphs	Graph of the circle			y
Higher	Algebra	Further graphs	Using graphs to solve a pair of equations			y
Both	Algebra	Index notation	Using index notation		y	y
Both	Algebra	Inequalities	Solving inequalities and showing inequalities on a number line		y	
Both	Algebra	Inequalities	Finding integer solutions to an inequality		y	
Both	Algebra	Inequalities	Solving linear inequalities		y	
Both	Algebra	Inequalities	Inequalities with integer solutions		y	
Higher	Algebra	Inequalities	Solving inequalities with two variables graphically		y	
Both	Algebra	Linear graphs	Simple linear graphs		y	y
Both	Algebra	Linear graphs	Using $y = mx + c$		y	y
Higher	Algebra	Linear graphs	Parallel and perpendicular lines		y	
Both	Algebra	Number patterns and sequences	Introduction to number sequences		y	
Both	Algebra	Number patterns and sequences	The nth term		y	
Both	Algebra	Quadratic equations	Factorising quadratic equations : example		y	
Higher	Algebra	Quadratic equations	Solving quadratic equations by completing the square		y	
Higher	Algebra	Quadratic equations	The quadratic formula		y	y
Higher	Algebra	Quadratic equations	Equations with algebraic fractions		y	y
Higher	Algebra	Quadratic equations	Problems involving quadratic equations		y	y
Both	Algebra	Quadratic graphs	Plotting quadratic graphs			y
Higher	Algebra	Quadratic graphs	Solving quadratic equations : example			y
Both	Algebra	Real-life graphs	Real-life plots and graphs		y	y
Both	Algebra	Simultaneous equations	Solving simultaneous equations using elimination		y	y
Both	Algebra	Simultaneous equations	Solving simultaneous equations using substitution		y	y
Both	Algebra	Simultaneous equations	Solving simultaneous equations graphically			y

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Both	Algebra	Simultaneous equations	Setting up and solving simultaneous equations		y	y
Higher	Algebra	Simultaneous equations	Solving a linear and quadratic equation simultaneously			y
Both	Algebra	Substitution	Substitution in an expression		y	y
Higher	Algebra	Transformation of functions	Types of transformations			y
Higher	Algebra	Transformation of functions	Translation			y
Both	Algebra	Trial and improvement	Trial and improvement			y
Higher	Algebra	Trial and improvement	Finding an approximate solution using trial and improvement			y
Both	Geometry and Measures	Angles and lines	Types of angles			y
Both	Geometry and Measures	Angles and lines	Estimating the size of angles			y
Both	Geometry and Measures	Angles and lines	Measuring angles and lengths			y
Both	Geometry and Measures	Angles and lines	Parallel and perpendicular lines			y
Both	Geometry and Measures	Angles and lines	Constructing an angle			y
Both	Geometry and Measures	Angles and lines	Constructing a triangle			y
Both	Geometry and Measures	Angles and lines	Angles on a straight line and angles around a point			y
Higher	Geometry and Measures	Angles and polygons	Triangles and quadrilaterals			y
Higher	Geometry and Measures	Angles and polygons	Interior and exterior angles in a polygon			y
Higher	Geometry and Measures	Angles and polygons	Corresponding and alternate angles			y
Higher	Geometry and Measures	Angles and polygons	Proving angle facts			y
Higher	Geometry and Measures	Angles and polygons	Bearings			y
Both	Geometry and Measures	Shapes and angles	Angle facts: triangles			y
Both	Geometry and Measures	Shapes and angles	Angle facts: quadrilaterals			y
Both	Geometry and Measures	Shapes and angles	Interior and exterior angles			y
Both	Geometry and Measures	Shapes and angles	Parallel lines			y
Both	Geometry and Measures	Shapes and angles	Bearings			y
Both	Geometry and Measures	Circles	The circle			y
Both	Geometry and Measures	Circles	Circumference and area			y
Both	Geometry and Measures	Circles	Circles and arcs			y
Both	Geometry and Measures	Circles	Sectors and segments			y
Higher	Geometry and Measures	Circles	Circle theorems			y
Higher	Geometry and Measures	Circles	Circle theorem: examples			y
Both	Geometry and Measures	Construction and loci	Constructing a triangle			y
Both	Geometry and Measures	Construction and loci	Constructing other shapes			y
Both	Geometry and Measures	Construction and loci	Constructing a perpendicular bisector of a line			y
Both	Geometry and Measures	Construction and loci	Bisecting an angle			y
Both	Geometry and Measures	Construction and loci	Constructing the perpendicular from a point to a line			y
Both	Geometry and Measures	Construction and loci	Constructing the perpendicular to a line from a point on the line			y
Both	Geometry and Measures	Construction and loci	Constructing the locus of points from a fixed point			y
Both	Geometry and Measures	Construction and loci	Constructing the locus of points from a fixed line			y
Both	Geometry and Measures	Construction and loci	Constructing a region that satisfies a given set of conditions			y
Both	Geometry and Measures	Co-ordinates	Understanding co-ordinates			y
Higher	Geometry and Measures	Co-ordinates	3-D co-ordinates			y
Both	Geometry and Measures	Measure	Imperial and metric units			y
Both	Geometry and Measures	Measure	Convert metric units			y
Both	Geometry and Measures	Measure	Speed, distance and time			y
Both	Geometry and Measures	Measure	Mass, density and volume			y
Higher	Geometry and Measures	Measure	Converting metric units			y
Higher	Geometry and Measures	Measure	Converting imperial units			y
Higher	Geometry and Measures	Measure	Speed, distance and time conversion			y
Higher	Geometry and Measures	Measure	Mass, density and volume conversion			y
Higher	Geometry and Measures	Measure	Length, area or volume expressions			y
Higher	Geometry and Measures	Measure	Upper and lower bounds			y
Both	Geometry and Measures	Measuring from scales	Measurements and scales			y
Both	Geometry and Measures	Measuring from scales	Time and units			y
Both	Geometry and Measures	Measuring from scales	Timetables			y
Both	Geometry and Measures	Perimeter and area	Calculating perimeter			y
Both	Geometry and Measures	Perimeter and area	Calculating area			y
Both	Geometry and Measures	Perimeter and area	Compound shapes			y
Both	Geometry and Measures	Perimeter and area	Converting units			y

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Higher	Geometry and Measures	Perimeter and area	Area and perimeter of 2-d shapes			y
Higher	Geometry and Measures	Perimeter and area	Area and circumference of a circle			y
Higher	Geometry and Measures	Perimeter and area	Converting between units of measure			y
Higher	Geometry and Measures	Volume and surface area	Volume of 3-D shapes			y
Higher	Geometry and Measures	Volume and surface area	Converting units of volume			y
Higher	Geometry and Measures	Volume and surface area	Surface area of a prism and a cylinder			y
Both	Geometry and Measures	Surface area and volume	Surface area of a sphere and a cone			y
Both	Geometry and Measures	3-D shapes	Names and nets of common shapes			y
Both	Geometry and Measures	3-D shapes	Front and side elevations			y
Both	Geometry and Measures	3-D shapes	Using elevations to draw shapes			y
Both	Geometry and Measures	3-D shapes	Planes of symmetry			y
Both	Geometry and Measures	Pythagoras' theorem	Finding the hypotenuse using Pythagoras' theorem			y
Both	Geometry and Measures	Pythagoras' theorem	Finding a shorter side using Pythagoras' theorem			y
Both	Geometry and Measures	Pythagoras' theorem	Calculating the distance between two points			y
Both	Geometry and Measures	Pythagoras' theorem	Pythagoras' theorem and real-life problems			y
Higher	Geometry and Measures	Pythagoras' theorem	3-dimensional shapes			y
Both	Geometry and Measures	Similarity and congruence	Calculating sides and areas of similar shapes			y
Higher	Geometry and Measures	Similarity and congruence	Calculating volumes of similar 3-d shapes			y
Higher	Geometry and Measures	Similarity and congruence	Volume and area of similar solids: example			y
Higher	Geometry and Measures	Similarity and congruence	Congruence			y
Both	Geometry and Measures	Similarity, congruence and symmetry	Similarity and congruence			y
Both	Geometry and Measures	Similarity, congruence and symmetry	Line symmetry			y
Both	Geometry and Measures	Similarity, congruence and symmetry	Rotational symmetry			y
Both	Geometry and Measures	Similarity, congruence and symmetry	Tessellation			y
Both	Geometry and Measures	Surface area and volume	Calculating volume of 3-d shapes			y
Both	Geometry and Measures	Surface area and volume	Converting units of volume			y
Both	Geometry and Measures	Surface area and volume	Calculating the surface area of a prism			y
Higher	Geometry and Measures	Transformations	Rotation			y
Higher	Geometry and Measures	Transformations	Reflection			y
Higher	Geometry and Measures	Transformations	Translation			y
Higher	Geometry and Measures	Transformations	Enlargement			y
Higher	Geometry and Measures	Transformations	Multiple transformations and describing these as a single transformation			y
Both	Geometry and Measures	Transformations	Rotation			y
Both	Geometry and Measures	Transformations	Reflection			y
Both	Geometry and Measures	Transformations	Translation			y
Both	Geometry and Measures	Transformations	Enlargement			y
Both	Geometry and Measures	Transformations	Multiple transformations			y
Both	Geometry and Measures	Trigonometry	The three trigonometric ratios			y
Both	Geometry and Measures	Trigonometry	Using trigonometry to find a length			y
Both	Geometry and Measures	Trigonometry	Using trigonometry to find angles			y
Both	Geometry and Measures	Trigonometry	Using trigonometry to solve problems			y
Higher	Geometry and Measures	Trigonometry	Using trigonometry in 3-d shapes			y
Higher	Geometry and Measures	Trigonometry	The area of a triangle			y
Higher	Geometry and Measures	Trigonometry	The sine rule			y
Higher	Geometry and Measures	Trigonometry	The cosine rule			y
Both	Geometry and Measures	Vectors	Vector quantities			y
Both	Geometry and Measures	Vectors	The laws of vector addition			y
Both	Geometry and Measures	Vectors	Parallel vectors			y
Higher	Geometry and Measures	Vectors	Solving geometric problems involving vectors			y
Both	Statistics	Averages	Comparing distributions	y		
Both	Statistics	Averages	Mean, median, mode and range	y		
Both	Statistics	Averages	Stem and leaf diagrams	y		
Both	Statistics	Averages	Ungrouped frequency tables	y		
Both	Statistics	Averages	Grouped frequency tables	y		
Higher	Statistics	Averages	Inter-quartile range and stem and leaf diagrams	y		
Higher	Statistics	Averages	Moving averages	y		
Both	Statistics	Collecting data	Collecting and recording data	y		
Both	Statistics	Collecting data	Two-way tables	y		

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Both	Statistics	Collecting data	Questionnaires	y		
Higher	Statistics	Collecting data	Sampling	y		
Both	Statistics	Presenting data	Bar charts, pie charts, line graphs, frequency diagrams, histograms and frequency polygons	y		
Both	Statistics	Presenting data	Pictograms	y		
Higher	Statistics	Presenting data	Cumulative frequency graphs	y		
Higher	Statistics	Presenting data	Box plots, data comparison and histograms with unequal widths	y		
Both	Statistics	Presenting data	Scatter graphs and correlations	y		
Both	Probability	Probability	The probability scale and writing probabilities	y		
Both	Probability	Probability	Two-way probability tables	y		
Both	Probability	Probability	Mutually exclusive events	y		
Both	Probability	Probability	Relative frequency	y		
Both	Probability	Probability	Probability and sample spaces	y		
Higher	Probability	Probability	Mutually exclusive events	y		
Both	Probability	Probability	Independent events	y		
Both	Probability	Probability	Probability trees	y		
Higher	Probability	Probability	Relative frequency	y		