

HIGHER TIER - OCR

	Paper 1	Paper 2	Paper 3
Number			
Arithmetic		Fraction arithmetic Decimal arithmetic	
Whole number theory		Types of number Factors and multiples	Types of number Factors and multiples
Calculator	Quotients		
Combining arithmetic operations	Priority of operations		
Fractions		Decimals and fractions Recurring decimals	
Percentages	Percentage calculations	Percentage calculations	
	Percentage change	Percentage change	Percentage change
	Reverse percentages		Reverse percentages
Powers and roots		Index notation	Index notation
		Powers of integers	
		Laws of indices	Laws of indices
		Surds and exact calculations	
Approximation and estimation		Rounding	Rounding
	Upper and lower bounds		
		Estimation	
Standard Form	Standard form representation	Standard form representation	
		Standard form calculation	Standard form calculation
Equivalence	Decimals, fractions and percentages		
Ratio, proportion, and rates of change			
Ratios		Simplify ratios	
		Use ratio	Use ratio
			Calculate with proportions
Direct and inverse proportion	Direct proportion		Direct proportion
	Solve ratio and proportion problems		
		Inverse proportion	
Growth and decay	Growth and decay problems		Growth and decay problems
Algebra			
Algebraic expressions		Simplifying algebraic expressions	Simplifying algebraic expressions
	Factorise quadratic expressions		Factorise expressions
	Multiplying out brackets	Multiplying out brackets	Multiplying out brackets
			Completing the square
	Algebraic fractions		
	Formulate algebraic expressions	Formulate algebraic expressions	Formulate algebraic expressions
		Rearranging formulae	Rearranging formulae
Algebraic formulae	Substitute values into expressions	Substitute values into expressions	
	Use of brackets	Use of brackets	Use of brackets
		Use kinematics formulae	
Algebraic equations			Linear equations
			(Graphical?) Solving inequalities
		Quadratic equations	Quadratic equations
Algebraic inequalities		Approximate solutions by iteration	
	Solving inequalities		Graphical inequalities
Graphs of equations and functions			Features and types of graphs
			Trigonometric graphs
	Equations of circles	Equations of circles	
	Drawing and interpreting (quadratic) graphs	Drawing and interpreting graphs	Transformations of graphs
			Drawing and interpreting graphs
Straight line graphs		Distance/speed-time graphs	Solution set for inequalities
		Parallel and perpendicular lines	
		Equation of a line	
Proof	Algebraic proofs		

Geometry and measures

Conventions, notation and terms	Properties of a triangle Circle terms		
Angles	Angles in polygons Angle properties of parallel lines		
Similarity			Length, area and volume scale factors of similar figures
Units of measurement	Length and time	Units of speed, distance and time	Units of money, distance, time, density, mass, volume and area
Compound units	Rates		
Plane isometric transformations		Transformations	
Congruency			Reasons for congruency
Volume and surface area calculations	Volume of pyramid and sphere		Cuboid and prism
Constructions and loci		Construct loci Maps, bearings and scale drawings	
Circle geometry	Standard circle theorems Circumference of a circle	Circumference of a circle and length of an arc	Area and circumference of a circle
Area calculations		Area of a rectangle	Area of a triangle
Triangle mensuration		Trigonometry	Trigonometry
	Pythagoras' Theorem		
		Exact trigonometric ratios	Solving non-right-angled triangles

Probability

Basic probability and experiments		Relative frequency Equally likely outcomes and probability	Equally likely outcomes and probability
	Enumeration		Sample spaces
Combined events and probability diagrams		Venn diagrams and sets	Calculation with the laws of probability
	Calculation with the laws of probability		Conditional probability
	Conditional probability	Conditional probability	Conditional probability

Statistics

Analysing data		Graphical misrepresentation Pie chart	
Interpreting and representing data	Collecting data		
	Scatter diagrams and outliers		Cumulative frequency
		Line graph and time series	

Advice

- The information is presented in approximate specification order and not in question order. Any given question may require content from more than one description.
- Topics not explicitly given in the list may appear in low tariff items or via synoptic questions.
- It is advised that teaching and learning should still cover the entire subject content in the specification.

- You should consider how you revise other parts of the specification, for example to review whether other topics may provide knowledge which helps your understanding in relation to the areas being tested in 2022.
- Students and teachers can discuss this notice.

This information is the same as the OCR provided information except that it has been reduced in size to only include information for this specific tier of entry ... any queries to support@justmaths.co.uk ... www.justmaths.co.uk