FOUNDATION TIER - OCR

Number

	Paper 1	Paper 2	Paper 3
		* Prime factors	
Arithmetic	Four rules with integers		Calculations with integers
	Money calculations		
	Priority of operations		
	Inverse operations		
Whole number theory	Understand number definitions and terms		Understand number definitions and terms
	Prime numbers	Prime numbers*	Prime numbers
		Factors, multiples and LCM*	Factors, multiples and LCM
			Sequence rule to find a term
Calculations with integers		Arithmetic with positive and negative numbers	
		Division of a quantity	
		Calculations with decimals	Calculations with decimals
Fractions	Fraction, decimals and percentages	Fraction, decimals and percentages	Fraction, decimals and percentages
	Fraction of a quantity	Fraction of a quantity	Fraction of a quantity
		Fraction arithmetic	Fraction arithmetic
Percentages		Percentage conversions	
	Percentages of quantities	Percentages of quantities	Percentages of quantities
	Percentage change		Percentage change
	Reverse percentages		
Powers and roots			Powers of integers
Ordering fractions, decimals and percentages	Listing in order		
Calculator	Use of calculator		Use of calculator
Standard Form	Standard form notation		
		Standard form calculations	
Approximation and estimation	Rounding		
	Upper and lower bounds		

Ratio, proportion, and rates of change

	Paper 1	Paper 2	Paper 3
Calculations with ratio			Write in a ratio
		Simplify ratio	Simplify ratio
	Share into a ratio		Share into a ratio
	Use a ratio		
		Interpreting ratio	
			Calculate with proportions
Direct and inverse proportion			Direct proportion
		Inverse proportion	
Growth and decay			Simple interest
			Growth and decay problems and graphs

Algebra

	Paper 1	Paper 2	Paper 3
Algebraic expressions	Factorising expressions		Factorising quadratic expressions
	Simplifying algebraic expressions		
		Multiplying out brackets and simplify	Multiplying out brackets and simplify
			Simply algebraic products and quotients
		Formulate algebraic expressions	
Algebraic formulae			Substitute into an expression
Algebraic equations		Equations and identities	
	Solve linear equations	Solve linear equations	Solve linear equations
		Solve quadratic equations	
			Solve simultaneous equations
		Rearrange equations	
Sequences			Continue sequence
Inequalities	Solving inequalities		
Language of functions	Function machines		
Graphs		Equation of a straight line	
	Quadratic graphs		Quadratic graphs
			Graphs of real-world contexts

Geometry and measures

Conventions, notation and terms			Symmetry
			Circle terms
	Polygons		
Ruler and compass constructions		Construct and interpret angle bisector, line bisector and distance from a point.	
Angles	Properties of parallel lines		
Properties of polygons			Quadrilaterals
3-dimensional solids	Properties of solids		
Similarity		Transformations	
Vectors	Column vectors		
Units of measurement	Time	Money	Mass, Volume, Density
Compound units	Rates		
Maps and scale diagrams		Bearings	
Perimeter calculations			Perimeters of triangles and quadrilaterals
Area calculations	Area of a rectangle		
		Area of a triangle	
	Area of a circle		
	Area of composite shapes		
Volume and surface area calculations	Volume including cylinder, pyramid and sphere		Cuboid and prism
Triangle mensuration		Trigonometry	
		Exact trigonometric ratios	

Probability

Basic probability and experiments	None		Understand the probability scale
		Probability of equally likely events	
		Relative frequency	
Combined events and probability diagrams			Probability calculation
			Listing outcomes and related probabilities
			Tree diagram
			Calculation with the laws of probability

Statistics

Analysing data	Averages and range		Averages
	Scatter diagram and correlation		
	Graphical misrepresentation		
Interpreting and representing data		Bar chart and pie chart	
	Frequency tree		

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