

**FOUNDATION TIER - OCR - NOV 22 ONLY**

	Paper 1	Paper 2	Paper 3
<b>Number</b>			
Arithmetic	Money calculations	Money calculations	
Calculations with integers		Non-calculator methods	
Whole number theory	Definitions and terms	Definitions and terms	Prime factors
	Highest Common Factor (HCF) and Lowest Common Multiple (LCM)	Prime factors	Highest Common Factor (HCF) and Lowest Common Multiple (LCM)
Inverse Operations	Use inverse operations		
Combining arithmetic operations			Priority of operations
Fractions	Equivalent fractions	Equivalent fractions	Equivalent fractions
	Calculations with fractions	Calculations with fractions	Calculations with fractions
	Fractions of a quantity		Fractions of a quantity
Decimals	Write fractions as decimals or vice-versa	Write fractions as decimals or vice-versa	
	Calculations with decimals	Calculations with decimals	Calculations with decimals
Percentages		Convert between fractions, decimals and percentages	
		Percentages of quantities	
	Percentage calculations	Percentage calculations	
		Percentage change	Percentage change
Ordering fractions, decimals and percentages		Listing in order	Listing in order
	Use inequality symbols		Use inequality symbols
Powers and roots	Calculate powers and roots		
		Index notation	Index notation
			Laws of indices
Calculator		Calculate powers and roots	
Standard Form	Standard form notation		Standard form notation
	Standard form calculations		
Approximation and estimation	Rounding	Rounding	
		Estimation	

**Ratio, proportion, and rates of change**

Calculations with ratio		Write as a ratio	Write as a ratio
		Simplify ratio	Simplify ratio
	Equivalent ratios	Equivalent ratios	Equivalent ratios
	Share a quantity in a given ratio		
	Calculate one quantity from another		
	Ratios and fractions	Ratios and fractions	
	Solve ratio problems		
Direct and inverse proportion		Solve ratio and proportion problems	Solve ratio and proportion problems
	Direct proportion		Direct proportion
			Inverse proportion
Growth and decay	Compound interest		
		Simple interest	

**Algebra**

Algebraic expressions	Simplify algebraic expressions by collecting like terms		
	Simplify algebraic products and quotients		
	Take out common factors		
		Multiply out brackets	
Algebraic formulae	Formulate algebraic expressions		
	Substitute into a formula	Substitute into an algebraic expression	Substitution into an algebraic expression
	Rearrange a formula		
	Use kinematics formulae		
Algebraic equations		Linear equations	Linear equations
			Quadratic equations
	Simultaneous equations		
			Graphical solutions of simultaneous equations
Algebraic Inequalities		Linear inequalities	
Sequences	Continue a sequence		
Functions			Function machines
Graphs	x- and y-coordinates		
		Straight line graphs	
		Quadratic graphs	
Interpreting graphs			Graphs of real-world contexts
		Gradients	Gradients

## Geometry

Conventions, notation and terms	Draw a diagram from a written description		
Ruler and compass constructions	Perpendicular bisector		
	Angle bisector		
	Perpendicular from a point to a line		
	Loci		
Angles	Angles in a triangle		
		Angles on a line	
		Angles between intersecting lines	
		Angles in polygons	
Properties of polygons	Symmetry		
	Quadrilaterals		
Three-dimensional shapes		Plans and elevations	
Transformations			Reflection and rotation
Congruence			Congruent triangles
Vectors			Vector arithmetic
Similarity			Similar triangles
			Apply similarity to calculate unknown lengths
Use and convert standard units of measurement	Distance, length, mass, money, volume	Mass, money	Length, time
Compound units	Unit pricing, acceleration, density, speed, velocity	Unit pricing	Unit pricing, interpret a gradient
Maps and scale diagrams	Bearings and compass points		
		Construct and interpret scale drawings	
Perimeter calculations			Perimeters of rectilinear shapes and circumference of a circle
Area calculations		Triangle, rectangle	
			Circle
Triangle mensuration	Trigonometry		
		Pythagoras' theorem	
Volume and surface area calculations			Cuboid

## Probability

Basic probability and experiments	The probability scale		
	Relative frequency and probability		Relative frequency and probability
	Equally likely outcomes and probability	Equally likely outcomes and probability	
		Probability calculations	
Combined events and probability diagrams		Sample spaces	List outcomes and use sample spaces
		Tree diagrams	Tree diagrams
		Calculation using the laws of probability	Calculation using the laws of probability
	Venn diagrams		

## Statistics

Analysing data	Mean		
Interpreting and representing data	Bar chart		
			Scatter diagrams, correlation and outliers
		Pictogram, time series	
		Graphical misrepresentation	

## 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 NOVEMBER 2022.

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 ...  
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