

Foundation paper 1

Number (*see Ratio – some overlap of topic areas)	
Arithmetic	Money
	Negative number
Fractions	Order fractions, decimals, percentages
	Fraction of an amount
	Fraction arithmetic
Properties	Place value
	Product of prime factors
Standard Form	Conversion
	Calculation
Approximation and Estimation	Estimation
Algebra	
Manipulation	Simplification
	Substitute values
Equations and inequalities	Linear inequality
	Quadratic equation
Graphs	Quadratic graph
Sequences	Linear sequence
Ratio, proportion, and rates of change (*see Number – some overlap of topic areas)	
Conversion	Length
Percentages	Percentage of an amount
	Percentage increase
Ratio	Write as a ratio
	Share in a ratio
Proportion	Direct proportion

Compound Measures	Speed
	Density
Geometry and measures	
Shape	Reflection
	Plan and elevation
Angles	Angles in a polygon
Length, area and volume	Volume of a cube
	Volume of a cylinder
Pythagoras's Theorem and Trigonometry	Exact trigonometric values
Probability	
Probability	Probability
	Frequency tree
Statistics	
Diagrams	Pictogram
	Bar chart
	Stem and leaf diagram

Foundation paper 2

Paper 2F – grouped by content area	
Number (*see Ratio – some overlap of topic areas)	
Arithmetic	Money
	Negative number
Fractions	Fraction arithmetic
	Order fractions
Properties	Order integers
	Multiples
Approximation and Estimation	Rounding
	Error interval
Other	Mathematical symbols
Algebra	
Manipulation	Simplification
	Expansion of bracket
	Factorisation
	Laws of indices
Equations and inequalities	Linear simultaneous equations
Graphs	Coordinates
	Straight line graph
Functions	Number machines
Ratio, proportion and rates of change (*see Number – some overlap of topic areas)	
Conversions	Mass, time, area
	Scale drawing
Percentages	Decimal to percentage
	Percentage profit
	Depreciation

Ratio	Write as a ratio
	Use of ratio
Proportion	Direct proportion
	Currency conversion
Geometry and measures	
Shape	Polygons
	Circles
	Parallel and perpendicular lines
	Transformations
Angles	Angles in a triangle
	Vertically opposite angles
Length, area and volume	Area of a rectangle
Probability	
Probability	Tree diagram
	Combined events
Statistics	
Diagrams	Interpret graph
	Two-way table
	Frequency table
Measures	Mode
	Median
	Mean

Foundation paper 3

Paper 3F – grouped by content area	
Number (*see Ratio – some overlap of topic areas)	
Arithmetic	Four operations Negative number
Fractions	Fraction of an amount One amount as a fraction of another Equivalent fractions
Properties	Factors Lowest Common Multiple
Powers and roots	Square root
Approximation and estimation	Rounding
Other	Calculator use
Algebra	
Manipulation	Simplification Expansion of bracket Factorisation Substitute values Change subject of a formula Forming an expression
Equations and inequalities	Linear equation Form an equation
Sequences	Linear sequence
Ratio, proportion and rates of change (*see Number – some overlap of topic areas)	
Conversions	Time Compound units Scale drawing

Percentages	Percentage to fraction One quantity as a percentage of another Percentage decrease Reverse percentage
Ratio	Write as a ratio 1 : n form
Proportion	Direct proportion
Compound measures	Average speed
Geometry and measures	
Shape	Triangle properties Quadrilaterals Triangular prism
Angles	Angle properties of parallel lines Angles in a triangle Vertically opposite angles Bearings
Length, area and volume	Area of a triangle Area of a trapezium
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem
Probability	
Probability	Probability scale Probability
Statistics	
Diagrams	Frequency polygon
Measures	Median Range
Population	Comparison of distributions