

Term	Block number	Block title	Small step number
Autumn	1	Ratio	1
			2
			3
			4
			5
			6
			7
			8
	2	Proportion and scale	1
			2
			3
			4
			5
			6
			7
			8
	3	Algebraic manipulation	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
	4	Coordinates and graphs	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
	5	Multiply and divide fractions	1
			2
			3
			4
			5
			6

Small step title
Understand ratio
Ratio problems (whole given)
Ratio problems (part given)
Ratio problems (difference given)
Simplify ratios
Express ratios in the form 1:n and n:1 €
Compare ratios and fractions
Solve problems with ratio
Direct proportion
Conversion graphs
Convert between currencies
Direct proportion graphs
Similar shapes
Convert metric units
Scale diagrams
Interpret maps using scale and ratios
Form algebraic expressions
Identify and use formulae, expressions, identities and equations
Simplify expressions
Use directed number with algebra
Substitution with directed number
Expand a single bracket
Factorise into a single bracket
Expand single brackets and simplify
Expand double brackets €
Factorise quadratic expressions (E)
Coordinates in all four quadrants
Lines parallel to the axes
Table of values
Recognise and use the line $y=x$
Lines of the form $y=mx$
Link $y=mx$ to direct proportion (E)
Introduce gradient ($y=mx$)
Lines with a negative gradient
Lines of the form $y=x+c$
Lines of the form $y=mx+c$
Find the midpoint of a line segment €
Solve problems with coordinates and graphs (E)
Quadratic graphs (E)
Multiply a fraction by an integer
Multiply fractions
Understand reciprocals
Divide a fraction by an integer
Divide an integer by a fraction
Divide a fraction by a unit fraction

Spring	6	Symmetry & reflection	7
			8
			9
			1
			2
			3
			4
			5
	1	Area, volume and density	6
			1
			2
			3
			4
			5
			6
			7
			8
	2	Equations and inequalities	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
	3	Percentages	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
	4	Indices	1
			2
			3
			4
			5
			6
			7

Divide fractions
Multiply and divide mixed numbers
Multiply and divide algebraic fractions (E)
Line symmetry
Rotational symmetry
Reflect a shape in a horizontal or vertical line
Reflect a shape in a diagonal line
Reflect a shape given equation of a line €
Describe a reflection (E)
Name 2-D and 3-D shapes
Area of a 2-D shape
Area of a compound shape
Recognise prisms
Volume of cubes and cuboids
Convert metric units of mass and capacity
Understand the units of density, mass and volume
Problems with density, mass and volume
Solve 1- and 2-step equations
Solve more complex equations
Solve fractional equations
Form and solve equations
Solve equations with unknowns on both sides
Understand and use inequalities
Inequalities on a number line
Solve inequalities
Form and solve inequalities
Solve inequalities with unknowns on both sides (E)
Percentage of an amount
Convert between percentages and decimals
Use multipliers to find percentages
Convert between decimals and percentages greater than 1
Percentage increase using a multiplier
Percentage decrease using a multiplier
Percentage increase and decrease using a multiplier
Express one number as a fraction or a percentage of another (calculator)
Express one number as a fraction or a percentage of another (non-calculator)
Percentage change
Find the original value given a percentage
Choose appropriate methods to solve percentage problems
Add and subtract expressions with indices
Multiply and divide expressions with indices
Addition law for indices
Subtraction law for indices
Addition and subtraction laws for indices
Powers of powers (E)
Negative indices (E)

Summer	5	Standard form	8
			1
			2
			3
	6	Interpret and represent data	4
			1
			2
			3
			4
			5
			6
			7
	1	Angles in parallel lines & polygons	8
			9
			1
			2
			3
			4
			5
			6
			7
			8
			9
	2	Tables and probability	10
			11
			1
			2
			3
			4
			5
			6
	3	Circles	7
			8
			9
			1
			2
			3
			4
			5
			6
			7
			8
			9
			1

Fractional indices (E)
Positive and negative powers of 10
Numbers greater than 1 in standard form
Numbers between 0 and 1 in standard form
Standard form on a calculator
Types of data
Outliers and errors
Averages and range
Choose the most appropriate average
Compare distributions using average and the range
Averages from an ungrouped frequency table
Represent and interpret grouped discrete data
Represent and interpret continuous data grouped into equal classes
Mean and mode from a grouped frequency table (E)
Basic angles rules and notation
Angles between parallel lines and a transversal
Alternate and corresponding angles
Alternate, corresponding and co-interior angles
Solve complex problems with angles in parallel lines
Properties of special quadrilaterals and their diagonals
Find sides and angles in special quadrilaterals
Exterior angles of a polygon
Interior angles of a polygon
Interior angles in a regular polygon
Prove simple geometric proofs (E)
Probability vocabulary
The probability scale
Probability of a single event
Use the sum of probabilities being equal to 1
Probability experiments
Sample spaces for 1 or more events
Probabilities from sample space diagrams
Two-way tables
Probabilities from two-way tables
Frequency trees
Probabilities from frequency trees
Circle vocabulary
Pi as a ratio
Circumference of a circle
Perimeter of parts of a circle
Area of a circle
Area of parts of a circle
Area and circumference of a circle
Perimeter of compound shapes with circles
Perimeter and area of compound shapes with circles
Pictograms and bar charts