

Small steps

**Year 6**

Autumn Block 1

# **Place value**

## Small steps

Step 1

Numbers to 1,000,000

Step 2

Numbers to 10,000,000

Step 3

Read and write numbers to 10,000,000

Step 4

Powers of 10

Step 5

Number line to 10,000,000

Step 6

Compare and order any integers

Step 7

Round any integer

Step 8

Negative numbers

Autumn Block 2

**Addition, subtraction,  
multiplication and division**

## Small steps

Step 1

Add and subtract integers

Step 2

Common factors

Step 3

Common multiples

Step 4

Rules of divisibility

Step 5

Primes to 100

Step 6

Square and cube numbers

Step 7

Multiply up to a 4-digit number by a 2-digit number

Step 8

Solve problems with multiplication

## Small steps

Step 9

Short division

Step 10

Division using factors

Step 11

Introduction to long division

Step 12

Long division with remainders

Step 13

Solve problems with division

Step 14

Solve multi-step problems

Step 15

Order of operations

Step 16

Mental calculations and estimation

## Small steps

Step 17

Reason from known facts



Autumn Block 3

# Fractions A



## Small steps

Step 1

Equivalent fractions and simplifying

Step 2

Equivalent fractions on a number line

Step 3

Compare and order (denominator)

Step 4

Compare and order (numerator)

Step 5

Add and subtract simple fractions

Step 6

Add and subtract any two fractions

Step 7

Add mixed numbers

Step 8

Subtract mixed numbers

## Small steps

Step 9

Multi-step problems



Autumn Block 4

# Fractions B

## Small steps

Step 1

Multiply fractions by integers

Step 2

Multiply fractions by fractions

Step 3

Divide a fraction by an integer

Step 4

Divide any fraction by an integer

Step 5

Mixed questions with fractions

Step 6

Fraction of an amount

Step 7

Fraction of an amount – find the whole

Autumn Block 5

# Converting units

## Small steps

Step 1

Metric measures

Step 2

Convert metric measures

Step 3

Calculate with metric measures

Step 4

Miles and kilometres

Step 5

Imperial measures

Spring Block 1

# Ratio

## Small steps

Step 1

Add or multiply?

Step 2

Use ratio language

Step 3

Introduction to the ratio symbol

Step 4

Ratio and fractions

Step 5

Scale drawing

Step 6

Use scale factors

Step 7

Similar shapes

Step 8

Ratio problems



## Small steps

Step 9

Proportion problems

Step 10

Recipes

Spring Block 2

# Algebra

## Small steps

Step 1

1-step function machines

Step 2

2-step function machines

Step 3

Form expressions

Step 4

Substitution

Step 5

Formulae

Step 6

Form equations

Step 7

Solve 1-step equations

Step 8

Solve 2-step equations

## Small steps

Step 9

Find pairs of values

Step 10

Solve problems with two unknowns

Spring Block 3

# Decimals

## Small steps

Step 1

Place value within 1

Step 2

Place value – integers and decimals

Step 3

Round decimals

Step 4

Add and subtract decimals

Step 5

Multiply by 10, 100 and 1,000

Step 6

Divide by 10, 100 and 1,000

Step 7

Multiply decimals by integers

Step 8

Divide decimals by integers

## Small steps

Step 9

Multiply and divide decimals in context



Spring Block 4

# **Fractions, decimals and percentages**



## Small steps

Step 1

Decimal and fraction equivalents

Step 2

Fractions as division

Step 3

Understand percentages

Step 4

Fractions to percentages

Step 5

Equivalent fractions, decimals and percentages

Step 6

Order fractions, decimals and percentages

Step 7

Percentage of an amount – one step

Step 8

Percentage of an amount – multi-step

## Small steps

**Step 9**

Percentages – missing values



Spring Block 5

# **Area, perimeter and volume**

## Small steps

Step 1

Shapes – same area

Step 2

Area and perimeter

Step 3

Area of a triangle – counting squares

Step 4

Area of a right-angled triangle

Step 5

Area of any triangle

Step 6

Area of a parallelogram

Step 7

Volume – counting cubes

Step 8

Volume of a cuboid

Spring Block 6

# **Statistics**

## Small steps

Step 1

Line graphs

Step 2

Dual bar charts

Step 3

Read and interpret pie charts

Step 4

Pie charts with percentages

Step 5

Draw pie charts

Step 6

The mean

Summer Block 1

# Shape

## Small steps

Step 1

Measure and classify angles

Step 2

Calculate angles

Step 3

Vertically opposite angles

Step 4

Angles in a triangle

Step 5

Angles in a triangle – special cases

Step 6

Angles in a triangle – missing angles

Step 7

Angles in a quadrilateral

Step 8

Angles in polygons



## Small steps

Step 9

Circles

Step 10

Draw shapes accurately

Step 11

Nets of 3-D shapes



Summer Block 2

# **Position and direction**

## Small steps

Step 1

The first quadrant

Step 2

Read and plot points in four quadrants

Step 3

Solve problems with coordinates

Step 4

Translations

Step 5

Reflections

