

# YEAR 4 – MATHEMATICS - SMALL STEPS

## PLACE VALUE

Year 4 | Autumn term | Block 1 – Place value

### Small steps

Step 1 Represent numbers to 1,000

Step 2 Partition numbers to 1,000

Step 3 Number line to 1,000

Step 4 Thousands

Step 5 Represent numbers to 10,000

Step 6 Partition numbers to 10,000

Step 7 Flexible partitioning of numbers to 10,000

Step 8 Find 1, 10, 100, 1,000 more or less

Step 9 Number line to 10,000

Step 10 Estimate on a number line to 10,000

Step 11 Compare numbers to 10,000

Step 12 Order numbers to 10,000

Step 13 Roman numerals

Step 14 Round to the nearest 10

Step 15 Round to the nearest 100

Step 16 Round to the nearest 1,000

Step 17 Round to the nearest 10, 100 or 1,000

**Year 4 | Autumn term | Block 2 – Addition and subtraction**

## Small steps

Step 1

Add and subtract 1s, 10s, 100s and 1,000s

Step 2

Add up to two 4-digit numbers – no exchange

Step 3

Add two 4-digit numbers – one exchange

Step 4

Add two 4-digit numbers – more than one exchange

Step 5

Subtract two 4-digit numbers – no exchange

Step 6

Subtract two 4-digit numbers – one exchange

Step 7

Subtract two 4-digit numbers – more than one exchange

Step 8

Efficient subtraction

Step 9

Estimate answers

Step 10

Checking strategies

**Year 4 | Autumn term | Block 4 – Multiplication and division A**

## Small steps

Step 1

Multiples of 3

Step 2

Multiply and divide by 6

Step 3

6 times-table and division facts

Step 4

Multiply and divide by 9

Step 5

9 times-table and division facts

Step 6

The 3, 6 and 9 times-tables

Step 7

Multiply and divide by 7

Step 8

7 times-table and division facts

Step 9

11 times-table and division facts

Step 10

12 times-table and division facts

Step 11

Multiply by 1 and 0

Step 12

Divide a number by 1 and itself

Step 13

Multiply three numbers

## AREA

Year 4 | Autumn term | Block 3 – Area

### Small steps

Step 1

What is area?

Step 2

Count squares

Step 3

Make shapes

Step 4

Compare areas

**Year 4 | Spring term | Block 1 – Multiplication and division B**

## Small steps

Step 1

Factor pairs

Step 2

Use factor pairs

Step 3

Multiply by 10

Step 4

Multiply by 100

Step 5

Divide by 10

Step 6

Divide by 100

Step 7

Related facts – multiplication and division

Step 8

Informal written methods for multiplication

Step 9

Multiply a 2-digit number by a 1-digit number

Step 10

Multiply a 3-digit number by a 1-digit number

Step 11

Divide a 2-digit number by a 1-digit number (1)

Step 12

Divide a 2-digit number by a 1-digit number (2)

Step 13

Divide a 3-digit number by a 1-digit number

Step 14

Correspondence problems

Step 15

Efficient multiplication

**Year 4 | Spring term | Block 2 – Length and perimeter**

## Small steps

**Step 1** Measure in kilometres and metres

**Step 2** Equivalent lengths (kilometres and metres)

**Step 3** Perimeter on a grid

**Step 4** Perimeter of a rectangle

**Step 5** Perimeter of rectilinear shapes

**Step 6** Find missing lengths in rectilinear shapes

**Step 7** Calculate perimeter of rectilinear shapes

**Step 8** Perimeter of regular polygons

**Step 9** Perimeter of polygons

## Small steps

Step 1 Understand the whole

Step 2 Count beyond 1

Step 3 Partition a mixed number

Step 4 Number lines with mixed numbers

Step 5 Compare and order mixed numbers

Step 6 Understand improper fractions

Step 7 Convert mixed numbers to improper fractions

Step 8 Convert improper fractions to mixed numbers

Step 9 Equivalent fractions on a number line

Step 10 Equivalent fraction families

Step 11 Add two or more fractions

Step 12 Add fractions and mixed numbers

Step 13 Subtract two fractions

Step 14 Subtract from whole amounts

Step 15 Subtract from mixed numbers

## Small steps

Step 1

Tenths as fractions

Step 2

Tenths as decimals

Step 3

Tenths on a place value chart

Step 4

Tenths on a number line

Step 5

Divide a 1-digit number by 10

Step 6

Divide a 2-digit number by 10

Step 7

Hundredths as fractions

Step 8

Hundredths as decimals

Step 9

Hundredths on a place value chart

Step 10

Divide a 1- or 2-digit number by 100



## Small steps

Step 1

Make a whole with tenths

Step 2

Make a whole with hundredths

Step 3

Partition decimals

Step 4

Flexibly partition decimals

Step 5

Compare decimals

Step 6

Order decimals

Step 7

Round to the nearest whole number

Step 8

Halves and quarters as decimals

## MEASUREMENT – MONEY

Year 4 | Summer term | Block 2 – Money

### Small steps

Step 1 Write money using decimals

Step 2 Convert between pounds and pence

Step 3 Compare amounts of money

Step 4 Estimate with money

Step 5 Calculate with money

Step 6 Solve problems with money

## MEASUREMENT – TIME

Year 4 | Summer term | Block 3 – Time

### Small steps

Step 1 Years, months, weeks and days

Step 2 Hours, minutes and seconds

Step 3 Convert between analogue and digital times

Step 4 Convert to the 24-hour clock

Step 5 Convert from the 24-hour clock

## GEOMETRY – SHAPE

Year 4 | Summer term | Block 4 – Shape

### Small steps

Step 1 Understand angles as turns

Step 2 Identify angles

Step 3 Compare and order angles

Step 4 Triangles

Step 5 Quadrilaterals

Step 6 Polygons

Step 7 Lines of symmetry

Step 8 Complete a symmetric figure

## GEOMETRY – STATISTIC

Year 4 | Summer term | Block 5 – Statistics

### Small steps

Step 1 Interpret charts

Step 2 Comparison, sum and difference

Step 3 Interpret line graphs

Step 4 Draw line graphs

**Year 4 | Summer term | Block 6 – Position and direction**

## Small steps

Step 1

Describe position using coordinates

Step 2

Plot coordinates

Step 3

Draw 2-D shapes on a grid

Step 4

Translate on a grid

Step 5

Describe translation on a grid