

YEAR 3 – MATHEMATICS - SMALL STEPS

PLACE VALUE

Year 3 | Autumn term | Block 1 – Place value

Small steps

Step 1 Represent numbers to 100

Step 2 Partition numbers to 100

Step 3 Number line to 100

Step 4 Hundreds

Step 5 Represent numbers to 1,000

Step 6 Partition numbers to 1,000

Step 7 Flexible partitioning of numbers to 1,000

Step 8 Hundreds, tens and ones

Step 9 Find 1, 10 or 100 more or less

Step 10 Number line to 1,000

Step 11 Estimate on a number line to 1,000

Step 12 Compare numbers to 1,000

Step 13 Order numbers to 1,000

Step 14 Count in 50s

ADDITION AND SUBTRACTION

Year 3 | Autumn term | Block 2 – Addition and subtraction

Small steps

Step 1 Apply number bonds within 10

Step 2 Add and subtract 1s

Step 3 Add and subtract 10s

Step 4 Add and subtract 100s

Step 5 Spot the pattern

Step 6 Add 1s across a 10

Step 7 Add 10s across a 100

Step 8 Subtract 1s across a 10

Step 9 Subtract 10s across a 100

Step 10 Make connections

Step 11 Add two numbers (no exchange)

Step 12 Subtract two numbers (no exchange)

Step 13 Add two numbers (across a 10)

Step 14 Add two numbers (across a 100)

Step 15 Subtract two numbers (across a 10)

Step 16 Subtract two numbers (across a 100)

Step 17 Add 2-digit and 3-digit numbers

Step 18 Subtract a 2-digit number from a 3-digit number

Step 19 Complements to 100

Step 20 Estimate answers

Step 21 Inverse operations

Step 22 Make decisions

Year 3 | Autumn term | Block 3 – Multiplication and division A

Small steps

Step 1

Multiplication – equal groups

Step 2

Use arrays

Step 3

Multiples of 2

Step 4

Multiples of 5 and 10

Step 5

Sharing and grouping

Step 6

Multiply by 3

Step 7

Divide by 3

Step 8

The 3 times-table

Step 9

Multiply by 4

Step 10

Divide by 4

Step 11

The 4 times-table

Step 12

Multiply by 8

Step 13

Divide by 8

Step 14

The 8 times-table

Step 15

The 2, 4 and 8 times-tables

Year 3 | Spring term | Block 1 – Multiplication and division B

Small steps

Step 1

Multiples of 10

Step 2

Related calculations

Step 3

Reasoning about multiplication

Step 4

Multiply a 2-digit number by a 1-digit number – no exchange

Step 5

Multiply a 2-digit number by a 1-digit number – with exchange

Step 6

Link multiplication and division

Step 7

Divide a 2-digit number by a 1-digit number – no exchange

Step 8

Divide a 2-digit number by a 1-digit number – flexible partitioning

Step 9

Divide a 2-digit number by a 1-digit number – with remainders

Step 10

Scaling

Step 11

How many ways?

Year 3 | Spring term | Block 2 – Length and perimeter

Small steps

Step 1

Measure in metres and centimetres

Step 2

Measure in millimetres

Step 3

Measure in centimetres and millimetres

Step 4

Metres, centimetres and millimetres

Step 5

Equivalent lengths (metres and centimetres)

Step 6

Equivalent lengths (centimetres and millimetres)

Step 7

Compare lengths

Step 8

Add lengths

Step 9

Subtract lengths

Step 10

What is perimeter?

Step 11

Measure perimeter

Step 12

Calculate perimeter

Small steps

Step 1 Understand the denominators of unit fractions

Step 2 Compare and order unit fractions

Step 3 Understand the numerators of non-unit fractions

Step 4 Understand the whole

Step 5 Compare and order non-unit fractions

Step 6 Fractions and scales

Step 7 Fractions on a number line

Step 8 Count in fractions on a number line

Step 9 Equivalent fractions on a number line

Step 10 Equivalent fractions as bar models

Year 3 | Spring term | Block 4 – Mass and capacity

Small steps

Step 1

Use scales

Step 2

Measure mass in grams

Step 3

Measure mass in kilograms and grams

Step 4

Equivalent masses (kilograms and grams)

Step 5

Compare mass

Step 6

Add and subtract mass

Step 7

Measure capacity and volume in millilitres

Step 8

Measure capacity and volume in litres and millilitres

Step 9

Equivalent capacities and volumes (litres and millilitres)

Step 10

Compare capacity and volume

Step 11

Add and subtract capacity and volume

Year 3 | Summer term | Block 1 – Fractions B

Small steps

Step 1

Add fractions

Step 2

Subtract fractions

Step 3

Partition the whole

Step 4

Unit fractions of a set of objects

Step 5

Non-unit fractions of a set of objects

Step 6

Reasoning with fractions of an amount

Year 3 | Summer term | Block 2 – Money

Small steps

Step 1

Pounds and pence

Step 2

Convert pounds and pence

Step 3

Add money

Step 4

Subtract money

Step 5

Find change

Year 3 | Summer term | Block 3 – Time

Small steps

Step 1

Roman numerals to 12

Step 2

Tell the time to 5 minutes

Step 3

Tell the time to the minute

Step 4

Read time on a digital clock

Step 5

Use am and pm

Step 6

Years, months and days

Step 7

Days and hours

Step 8

Hours and minutes – use start and end times

Step 9

Hours and minutes - use durations

Step 10

Minutes and seconds

Step 11

Units of time

Step 12

Solve problems with time

Year 3 | Summer term | Block 4 – Shape

Small steps

Step 1

Turns and angles

Step 2

Right angles

Step 3

Compare angles

Step 4

Measure and draw accurately

Step 5

Horizontal and vertical

Step 6

Parallel and perpendicular

Step 7

Recognise and describe 2-D shapes

Step 8

Draw polygons

Step 9

Recognise and describe 3-D shapes

Step 10

Make 3-D shapes

Small steps

Step 1

Interpret pictograms

Step 2

Draw pictograms

Step 3

Interpret bar charts

Step 4

Draw bar charts

Step 5

Collect and represent data

Step 6

Two-way tables