

YEAR 6 – MATHEMATICS - SMALL STEPS

PLACE VALUE

Year 6 | Autumn term | 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

ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION

Year 6 | Autumn term | 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

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

Step 17 Reason from known facts

FRACTIONS A

Year 6 | Autumn term | 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

Step 9 Multi-step problems

FRACTIONS B

Year 6 | Autumn term | 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

MEASUREMENT – CONVERTING UNITS

Year 6 | Autumn term | 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

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

Step 9

Proportion problems

Step 10

Recipes

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

Step 9 Find pairs of values

Step 10 Solve problems with two unknowns

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

Step 9

Multiply and divide decimals in context

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

Step 9

Percentages – missing values

Year 6 | Spring term | 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

Year 6 | Spring term | 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

Year 6 | Summer term | 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

Step 9

Circles

Step 10

Draw shapes accurately

Step 11

Nets of 3-D shapes

Year 6 | Summer term | 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