

Unit 1

Place value within 10,000,000



In this unit we will ...

- ⚡ Learn to read and write numbers to 10,000,000
- ⚡ Partition, compare and order numbers up to 10,000,000
- ⚡ Round numbers
- ⚡ Work with negative numbers

Unit 2

Four operations 1



In this unit we will ...

- ⚡ Use written methods for addition and subtraction
- ⚡ Find common factors and multiples
- ⚡ Learn about prime, square and cube numbers

Unit 3

Four operations 2



In this unit we will ...

- ⚡ Use written methods for multiplication and division
- ⚡ Learn about the order of operations
- ⚡ Solve mental calculations

Unit 4

Fractions 1



In this unit we will ...

- ⚡ Simplify fractions
- ⚡ Compare and order fractions
- ⚡ Add and subtract fractions including mixed numbers
- ⚡ Solve problems involving adding and subtracting fractions

Unit 5

Fractions 2



In this unit we will ...

- ⚡ Multiply any fraction by a whole number or another fraction
- ⚡ Divide a fraction by a whole number
- ⚡ Solve problems involving all four operations with fractions
- ⚡ Solve problems involving a fraction of an amount

Unit 6

Measure – imperial and metric measures



In this unit we will ...

- ✦ Choose the most appropriate metric units of measurement to measure different things
- ✦ Convert between metric units, between imperial units and from one to the other
- ✦ Solve problems involving metric units
- ✦ Recognise the difference between metric and imperial units of measurement and what they are worth

Unit 7

Ratio and proportion



In this unit we will ...

- ✦ Calculate ratios
- ✦ Use ratios to work out amounts
- ✦ Enlarge shapes by a scale factor
- ✦ Identify similar shapes
- ✦ Solve problems involving ratio

Unit 8

Algebra



In this unit we will ...

- ✦ Find and write algebraic rules
- ✦ Write algebraic expressions
- ✦ Write algebraic formulae
- ✦ Write and solve algebraic equations
- ✦ Solve equations that have lots of solutions

Unit 9

Decimals



In this unit we will ...

- ✦ Recognise the value of each digit in a decimal number
- ✦ Multiply and divide decimals by 10, 100 and 1,000
- ✦ Convert between fractions and decimals
- ✦ Multiply and divide decimals by 1-digit numbers

Unit 10

Percentages



In this unit we will ...

- ✦ Develop a deeper understanding of percentages as parts of 100
- ✦ Find equivalent fractions, decimals and percentages
- ✦ Understand a range of methods to work out percentages
- ✦ Find 1% and multiples of 1%
- ✦ Work out missing values, such as 30% of ? = 60
- ✦ Convert, order and solve problems involving fractions, percentages and decimals

Unit II



Measure – perimeter, area and volume



In this unit we will ...

- ⚡ Find and draw shapes with the same area or perimeter
- ⚡ Explore how the perimeter changes when the area changes and vice versa
- ⚡ Calculate the area of parallelograms and triangles
- ⚡ Calculate and estimate the volume of cubes and cuboids

Unit I2

Statistics



In this unit we will ...

- ⚡ Interpret and create line graphs and bar charts
- ⚡ Read and interpret pie charts using fractions
- ⚡ Read and interpret pie charts using percentages
- ⚡ Learn to calculate the mean of a set of data
- ⚡ Use the mean to find missing data

Unit I3

Geometry – properties of shapes



In this unit we will ...

- ⚡ Measure angles and draw shapes accurately using a ruler and protractor
- ⚡ Calculate unknown angles in shapes and on lines using angle facts
- ⚡ Explore properties of polygons and circles
- ⚡ Identify 3D shapes from 2D representations
- ⚡ Draw multiple nets for a 3D shape

Unit I4

Geometry – position and direction



In this unit we will ...

- ⚡ Look at how we can use coordinates to describe the position of a point on a grid
- ⚡ Look at how coordinates can have positive or negative values
- ⚡ Explore how we can use our knowledge of properties of shapes to help us solve problems on a coordinate grid
- ⚡ Explore how we can move and change shapes on a coordinate grid, through translations and reflections