

## Place Value

Read and write numbers up to 10,000,000.

Compare and order any integers.

Round integers to the nearest powers of 10.

Compare negative numbers.

Find the difference between negative numbers.

Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.

## Fractions

Multiply fractions by integers.

Multiply fractions by fractions.

Divide a fraction by an integer

Fraction of amounts.

Divide fraction by integer.

## Four Operations

Add and subtract integers.

Find common factors.

Find common multiples.

Understand and know prime numbers up to 100.

Understand and know square and cube numbers.

Multiply up to a 4 digit by 2 digit number.

Calculate using short division.

Calculate using long division.

## Converting Units

Convert metric units.

Convert between miles and kilometres.

Convert imperials.

## Fractions

Find equivalent fractions.

Simplify fractions.

Compare and order fractions.

Add and subtract fractions with common denominators.

Add and subtract fractions with different denominators.

Add and subtract mixed numbers.

## Decimals

Understand and label decimal place value.

Add and subtract decimals.

Multiply by 10,100 and 1000.

Divide by 10, 100 and 1000.

Multiply decimals by integers.

Divide decimals by integers.

## Fractions, Decimals and Percentages

Convert fractions to decimals.

Convert fractions to percentages.

Find equivalent F/D/P.

Order fractions, decimals and percentages.

Find percentages of amounts.

## Area, Perimeter and Volume

Calculate area by counting squares.

Work out the area of a rectangle.

Work out the perimeter of shapes.

Work out the area of compound shapes.

Work out the area of a triangle.

Calculate the area of a parallelogram.

Find volume by counting cubes.

Find the volume of a cuboid.

## Shape

Measure and classify angles.

Calculate missing angles using all rules.

Identify types of triangle and work out missing angles.

Find missing angles in quadrilaterals.

Identify parts of a circle.

Work out the radius and diameter.

Construct shapes.

Identify nets of 3D shapes.

## Position and Direction

Read and plot points in four quadrants.

Translate a shape using directions.

Describe a translation using directions.

Reflect a shape in a given axis.

## Ratio

Write amounts as ratio.

Write ratio as a fraction.

Calculate the scale factor.

Draw using scale factor.

Find lengths using similar shapes.

Divide quantity into a given ratio.

## Statistics

Read and interpret lines graphs.

Draw line graphs.

Read and interpret pie charts.

Draw a pie chart.

Work out the Area of a triangle.

Calculate the mean.



## Algebra

Using a 1 step function machine.

Using a 2 step function machine.

Form expressions.

Substitute into formulas.

Solve one step equations.

Find two numbers that satisfy an equations with two unknowns.

