

Multiplication and Division

Year 2

- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.
- Calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication (\times), division (\div) and equals (=) signs.
- Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another can't.
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context.

Measurement

Year 2

- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (degrees C); capacity (l/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.
- Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ or $=$.

Maths Spring Term Years 2, 3 and 4

Fractions

Year 2

- Recognise, name, find and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity.
- Write simple fractions, e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.

Multiplication and Division

Year 3

- Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including two digit times one digit numbers, using mental and formal written methods.
- Solve problems, including missing number problems, involving multiplication and division.
- Solve integer scaling problems and correspondence problems in which n objects are connected to m objects.

Measurement

Year 3

- Measure, compare, add and subtract: lengths (mm/cm/m); mass (kg/g); volume/capacity (l/ml).
- Measure the perimeter of simple 2D shapes

Fractions

Year 3

- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and dividing one digit numbers or quantities by 10.
- Recognise, find and write fractions of a discrete set of objects: unit and non-unit fractions with small denominators.
- Recognise and use fractions as numbers: unit and non-unit fractions with small denominators.
- Recognise and show, using diagrams, equivalent fractions with small denominators.
- Add and subtract fractions with the same denominator within one whole.
- Compare and order unit fractions, and fractions with the same denominators.
- Solve problems that involve all of the above.

Multiplication and division

Year 4

- Multiply two and three digit numbers by a one digit number using a formal written layout.
- Solve problems involving multiplication and division, including using the distributive law to multiply two digit numbers by one digit.
- Solve integer scaling problems and harder correspondence problems in which n objects are connected to m objects.

Measurement

Year 4

- Convert between different units of measure (for example, kilometre to metre)
- Measure and calculate the perimeter of rectilinear shapes (including squares) in cm and m.
- Find the area of rectilinear shapes by counting squares.

Maths Spring Term Years 2, 3 and 4

Fractions and decimals

Year 4

- Recognise and show, using diagrams, families of common equivalent fractions.
- Count up and down in hundredths; recognise that hundredths arise from dividing an object into 100 equal parts and dividing tenths by ten.
- Add and subtract fractions with the same denominator.
- Solve problems using increasingly harder fractions to calculate quantities, and fractions to divide quantities, including unit and non-unit fractions where the answer is a whole number.
- Find the effect of dividing a one digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.