



Living our learning

Year 2 Expectations in Maths

Throughout the year your child will be working towards these expectations.

Number and Place Value

Count in **twos** from 0

Count in **fives** from 0

Count in **threes** from 0

Count in **tens from any number, forward and backward**

Recognise the **place value** of each digit in a **two-digit number** (tens, ones) eg 27 is 2 tens and 7 units

Identify, represent and **estimate numbers** using a number line and a hundred square

Compare and order numbers from 0 up to 100; use **<, >** and **=** signs eg $90 > 89$

Read and write numbers to at least 100 in **numerals and in words** eg 99 or ninety nine

Use place value and number facts to solve problems e.g. $23 = 20 + 3$ $23 = 10 + 13$

Addition and Subtraction

Solve problems with **addition** and **subtraction** using **mental methods** and counters **and drawings** (numbers, quantities and measures)

Add a two-digit number to a one digit number using formal column written method (**not bridging 10**).

$$\begin{array}{r} 17 \\ + 2 \\ \hline 19 \end{array}$$

See our Written Methods Policy on the website for more information.

Add two two-digit numbers using formal column written method. (**not bridging 10**)

$$\begin{array}{r} 23 \\ + 46 \\ \hline 69 \end{array}$$

Add a two-digit number to a one digit number using formal column written method. (**bridging 10**)

$$\begin{array}{r} 36 \\ + 6 \\ \hline 42 \\ 1 \end{array}$$

Add two two-digit digit numbers using formal column written method. (**bridging 10**)

$$\begin{array}{r} 47 \\ +26 \\ \hline 73 \\ 1 \end{array}$$

Subtract a two-digit number from a two-digit number using formal column written method. (**not bridging 10**)

$$\begin{array}{r} 46 \\ - 23 \\ \hline 23 \end{array}$$

Subtract a one digit number from a two-digit number using formal column written method. (**bridging 10**)

$$\begin{array}{r} 1 \cancel{2} 12 \\ - \quad 7 \\ \hline 25 \end{array}$$

Subtract a two-digit number from a two-digit number using formal column written method. (**bridging 10**)

$$\begin{array}{r} 2 \cancel{1} 14 \\ - \quad 25 \\ \hline 9 \end{array}$$

Solve problems with **addition** and **subtraction** using **mental methods** and **formal column written methods** (numbers, quantities and measures) **with two two-digit numbers**.

Know and use addition and subtraction facts to 20
Know and use addition and subtraction facts to 20 to work out similar facts to 100 e.g. $3 + 4 = 7$; $30 + 40 = 70$; $70 - 40 = 30$ and $30 = 70 - 40$
Know that adding can be done in any order but subtraction cannot e.g. $5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5$
Know that subtraction is the opposite of addition and that it can be used to check your work
Use the inverse relationship between addition and subtraction to solve missing number problems e.g. $7 + 5 = 12$ to solve $12 - ? = 5$

Multiplication and Division
Remember and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers .
Solve multiplication and division problems (using counters, repeated addition, mental methods, and multiplication and division facts).
Know that multiplying two numbers can be done in any order but division cannot e.g. $4 \times 5 = 20$ and $20 \div 5 = 4$.

Fractions
Recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ of a length (working practically) .
Recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ of a shape .
Recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ of a set of objects or quantity .
Find and write fractions e.g. one half, one quarter, one third of shapes, objects and quantities e.g. $1/2$ of 6 = 3
Recognise the equivalence of $2/4$ and $1/2$

Geometry - Properties of Shape
Describe the properties of 2D shapes e.g. number of sides and number of corners of a square, triangle and quadrilateral (any 4 sided shape).
Recognise line symmetry in 2D shapes
Identify 2D shapes on the faces of 3D shapes e.g. a cube has 6 square faces, a cuboid can have 6 rectangular faces or 4 rectangular faces and 2 square faces
Describe the properties of 3D shapes (cube, cuboids, prisms and cones) including the number of edges, vertices (corners) and faces e.g. a cube has 12 edges, 6 square faces and 8 vertices (corners).
Compare and sort common everyday objects into 2-D and 3-D shapes. E.g. a box of cereal is a cuboid.

Measurement

Choose the right units to estimate and measure length (m/cm) mass (kg/g), temperature (°C); or capacity (litres/ml) e.g. What unit would you use to measure the length/ mass (weight) of a pencil? What is the length/mass (weight) of your pencil?

Read the nearest unit on a ruler or scales

Compare and order lengths, mass, volume/capacity and record the results using **>, < and =**

Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value

Find different combinations of coins that equal the same amounts of money
e.g $£1 = 50p + 50p = 20p + 20p + 10p + 50p$

Work practically to solve simple **problems involving adding and subtracting money**, including **giving change**.

Compare and sequence intervals of time

Tell the time to the **nearest five minutes** (on an analogue clock) e.g 5 minutes past 2

Tell the time when it is **quarter to** or **quarter past** an hour

Draw the hands on a clock face to show the **time to five minutes**, including **quarter past/to** the hour

Remember that there are 60 minutes in an hour and 24 hours in one day.

Geometry - Position and Direction

Order and arrange combinations of mathematical objects in **patterns and sequences**

Use mathematical vocabulary to **describe position, direction and movement** e.g. including moving in a straight line, to the left/right

Use right angles to describe turns (**quarter, half and three quarter turns**)

Recognise and use clockwise and anti-clockwise turns

Statistics

Interpret and present data using **tally charts**

Interpret and present data using **pictograms**

Interpret and present data using **bar charts**

Interpret and present data using **tables**

Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity