



Maths – End of Year expectations

By the end of FS2 they should be able to:

- ▶ Count reliably with numbers from one to 20, place them in order and say which number is *one more* or *one less* than a given number.
- ▶ Use quantities and objects to add and subtract two single-digit numbers and count on or back to find the answer.
- ▶ Solve problems, including doubling, halving and sharing.
- ▶ Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.
- ▶ Recognise, create and describe patterns.
- ▶ Explore characteristics of everyday objects and shapes and use mathematical language to describe them.

By the end of Year 1 they should be able to:

- ▶ Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.
- ▶ Count in multiples of twos, fives and tens.
- ▶ Read and write numbers from 1 to 20 in numerals and words.
- ▶ Confidently know number bonds to 20.
- ▶ Recall and use doubling and halving facts for numbers up to double 10 and other significant doubles.
- ▶ Recognise odd and even numbers to 20.
- ▶ Recognise, find and name a half as one of two equal parts of an object, shape or quantity and a quarter as one of four equal parts of an object, shape or quantity.

Measure and Shape:

- ▶ Compare, describe and solve practical problems for lengths and heights, weight, capacity and volume. They should also measure and begin to record these things.
- ▶ Recognise and know the value of different denominations of coins and notes.
- ▶ Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.
- ▶ Recognise and name common 2D and 3D shapes.
- ▶ Sorts shapes based on simple properties.

By the end of Year 2 they should be able to:

- ▶ Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.
- ▶ Recognise the place value of each digit in a two-digit number (tens, ones).
- ▶ Read and write numbers to at least 100 in numerals and in words.
- ▶ Add and subtract numbers using concrete objects, pictorial representations, and mentally, including two 2-digit numbers.
- ▶ Show that addition of two numbers can be done in any order and subtraction of one number from another cannot.
- ▶ Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solves missing number problems.
- ▶ Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.
- ▶ Recognise, find, name 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.

Measure and Shape:

- ▶ 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.
- ▶ Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
- ▶ Identify and describe the properties of 2-D shapes, including the number of sides and lines of symmetry in a vertical line.
- ▶ Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.
- ▶ Identifies 2-D shapes on the surface of 3-D shapes.

How we teach Maths in FS2:

- ▶ In FS2 the children are provided with lots of practical activities in order to begin to develop their understanding of number. Although there is a maths specific area within the FS2 setting, we ensure there are opportunities for maths to take place inside and outside too.

How we teach Maths in Year 1:

- ▶ In Year 1 the children are still given lots of opportunities to work practically, but they also start to record and use pictures and symbols to help them. The resources that they use during practical activities are maths specific, unlike FS2 where the children use real objects, such as teddies.

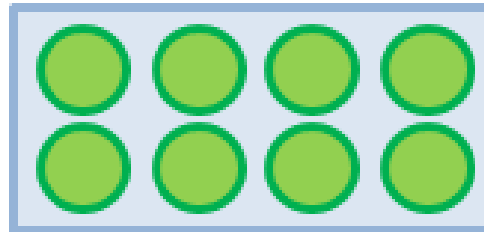


How we teach Maths in Year 2:

- ▶ In Year 2 the children have to sit the Sats at the end of the year and aren't allowed to use resources for them, so although children still use resources, they depend on them much less by the end of the year. As such, they are taught to draw pictures and arrays to help them, as well as more formal written methods such as drawing number lines. They will also carry out some calculations mentally.

Arrays

2 x 4 is the same as...

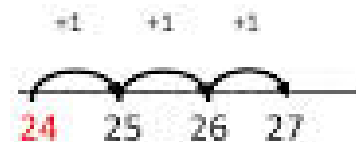


Number lines

Addition

Using a blank number line

$$24 + 3 =$$



$$24 + 30 =$$

