

Mathematics in Year 3

The National Curriculum is split into three main areas for mathematics. These are fluency, problem solving and reasoning. Every maths lesson will encompass all or part of these three main areas.

Key Objectives

These are not all the objectives children will cover during their time in Year 3; however, these are considered the key objectives for the year.

Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.

Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s).

Compare and order numbers up to 1,000.

Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction and to solve problems using these.

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.

Recognise, find and write fractions of a discrete set of objects.

Recognise and show, using diagrams, families of common equivalent fractions.

Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$].

Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).

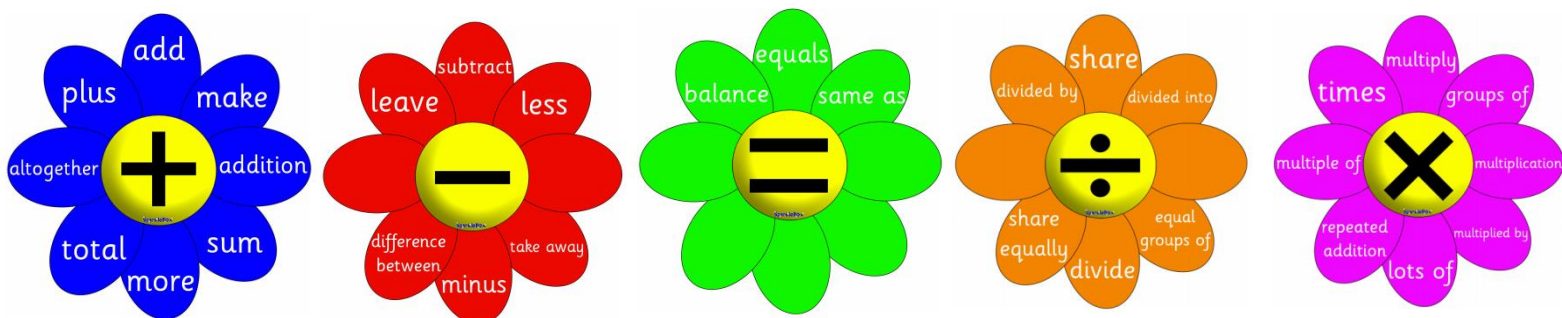
Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.

Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.

Interpret and present data using bar charts, pictograms and tables.

Key Vocabulary

Children are exposed to a range of vocabulary during maths lessons which we encourage you to use at home when completing maths activities.



How you can help at home!

Multiplication and division facts:

- Chant or recite times table facts and division facts, whilst walking or driving to or from school.

Numbers and patterns:

- Count forwards and backwards in steps of 4, 8, 50 and 100.
- Do simple addition and subtraction problems in their heads using:
 - three-digit numbers and ones, (eg $136 + 3$, $160 - 5$)
 - three-digit numbers and tens, (eg $156 + 20$, $187 - 30$)
 - three-digit numbers and hundreds, (eg $345 + 200$, $528 - 400$).

Number walks:

- Look at the numbers all around you. (Eg on car registration plates. Add 10 to the numbers, can your child guess the car you were looking at?)
- Get your child to add up a few shopping items and work out how much change they would get from a note.
- Ask for your child to help at the supermarket –
 - o ask them to get specific items (eg medium-sized tin of red beans, 2 litres of milk, 250g of mince)
 - o ask them to choose items to weigh. How many apples/bananas weigh a kilogram?
 - o back at home, ask them to pick 6 items with weight written on. Put them in order. Is the largest number the heaviest?

Shapes:

- Look for 2D and 3D shapes in the environment and then discuss their properties.
- Do a shape and number search when you are reading a book or looking at art.
- Do jigsaw puzzles together.
- Build different shapes with Lego and label or discuss their properties.

Measures:

- Learn to tell the time. Look at the 12 hour and 24 hour clock.
- Feel objects and compare their weight.
- Bake together, measuring out ingredients carefully.
- Grow seeds or sprouts – measure the growth each week.

We are always here to help. Please speak to your class teacher if you have any questions or queries on how you can support your child at home.

