# Maths Objectives <br> Year 2 

## NUMBER

## Number and place value

Pupils should be taught to:

- count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward or backward
- recognise the place value of each digit in a two-digit number (tens, ones)
- identify, represent and estimate numbers using different representations, including the number line
- compare and order numbers from 0 up to 100; use <, > and = signs
- read and write numbers to at least 100 in numerals and in words
- use place value and number facts to solve problems.


## Addition and subtraction

Pupils should be taught to:

- solve problems with addition and subtraction:
using concrete objects and pictorial representations, including those involving numbers, quantities and measures
$\square$ applying their increasing knowledge of mental and written methods
$\square$ recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
$\square$ add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
$\square$ a two-digit number and ones
$\square$ a two-digit number and tens
$\square$ two two-digit numbers
$\square$ adding three one-digit numbers
$\square$ show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
$\square$ recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.


## Multiplication and division

Pupils should be taught to:

- 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 the 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 cannot
- solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.


## Fractions

Pupils should be taught to:

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


## MEASUREMENT

Pupils should be taught to:

- choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); temperature ( ${ }^{\circ} \mathrm{C}$ ); capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- compare and order lengths, mass, volume/capacity and record the results using >, < 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
- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- compare and sequence intervals of time
- 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.


## GEOMETRY

## Properties of shapes

Pupils should be taught to:

- identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line
- identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid
- compare and sort common


## Position and direction

Pupils should be taught to:

- order and arrange combinations of mathematical objects in patterns
- use mathematical vocabulary to describe position, direction and movement including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise), and movement in a straight line.


## STATISTICS

Pupils should be taught to:

- interpret and construct simple pictograms, tally charts, block diagrams and simple tables
- ask and answer simple questions by counting the number of objects in each
category and sorting the categories by quantity
- ask and answer questions about totalling and comparing categorical data.

