

# Year 2 to Year 3 Math's Learning Journey



## Year 3



ask and answer questions about totalling and comparing categorical data.

ask and answer simple questions by counting the number of objects in each category

### Statistics

interpret and construct simple pictograms, tally charts, block diagrams and tables

use mathematical vocabulary to describe position, direction and movement

### Position & Direction

order and arrange combinations of mathematical objects in patterns and sequences

compare and sort common 2-D and 3-D shapes and everyday objects.



identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces

### Properties of Shapes

identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line

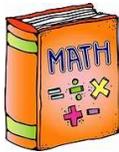
identify 2-D shapes on the surface of 3-D shapes

choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels

### Measurement

recognise and use symbols for pounds (£) and pence (p) arrays

compare and order lengths, mass, volume/capacity and record the results using  $>$ ,  $<$  and  $=$



### Fractions

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

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.

compare and sequence intervals of time

find different combinations of coins that equal the same amounts of money

write simple fractions, for example  $\frac{1}{2}$  of  $6 = 3$  and recognise the equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$ .

### Multiplication & Division

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



### Addition & Subtraction

recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

solve problems with addition and subtraction

solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot

show that addition of 2 numbers can be done in any order (commutative) and subtraction of one number from another cannot

### Number & Place Value

recognise the place value of each digit in a two-digit number (10s, 1s)

compare and order numbers from 0 up to 100; use  $<$ ,  $>$  and  $=$  signs



## Year 2

recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems

count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward

identify, represent and estimate numbers using different representations, including the number line

read and write numbers to at least 100 in numerals and in words