

# Year 3 – Phase 1



## Place Value

- count from 0 in multiples of 4 \*
- find 10 or 100 more or less
- recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
- identify, represent and estimate numbers using different representations

## Addition and Subtraction

- add and subtract numbers in my head \*
- estimate my answer to a calculation first \*
- use the inverse to check my answers
- add using the formal column method
- subtract using formal subtraction method
- add and subtract money

## Multiplication and Division

- recall and use multiplication and division facts for the 3 and 4 multiplication tables \*
- Write and calculate mathematical statements for multiplication and division.

## Fractions

- recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- recognise and show, using diagrams, equivalent fractions with small denominators
- compare and order fractions with the same denominator.

## Measurement

- use a ruler to measure cm and mm and know 100cm is 1m, 10mm is 1cm, 1000g is 1kg and 1000ml is 1l
- add and subtract lengths in mm/cm/m, mass in kg/g and capacity in ml/l
- be able to measure the perimeter of simple 2-D shapes
- tell and write the time from an analogue clock using vocabulary such as a.m and p.m

## Geometry

- draw 2D shapes and make 3D shapes using modelling materials
- identify right angles
- identify horizontal and vertical lines

# Year 3 – Phase 2



## Place Value

- count from 0 in multiples of 50 \*
- count from 0 in multiples of 100 \*
- be able to order and compare numbers up to 1000
- be able to read and write numbers up to 1000 in numerals and words

## Geometry

- draw and know a variety of 2-D shapes
- be able to identify right angles
- be able to identify horizontal and vertical lines
- know that 2 right angles make a half turn

## Number

- add and subtract 10 mentally from numbers, including: a three-digit number and ones \*
- continue to develop formal written methods for addition and subtraction with up to 3 digits
- develop reliable written methods for multiplication and division, starting with calculations of two-digit numbers by one-digit numbers and progressing to the formal written methods of short multiplication and division.

## Fractions

- count up and down in tenths
- know tenths arise from dividing an object into 10 equal parts
- be able to order and compare unit fractions
- add and subtract fractions with the same denominator

## Measurement

- accurately use £ and p when answering questions
- continue to measure the perimeter of simple 2-D shapes
- know the number of seconds in a minute
- know the number of days in each month
- know the number of days in a year and leap year

## Statistics

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



# Year 3 – Phase 3



### Place Value

- count from 0 in multiples of 8 \*
- continue to order numbers up to 1000 \*
- be able to read and write numbers up to 1000 in numerals and words
- solve problems, including missing number problems, using number facts and place value

### Geometry

- identify and draw basic 3-D shapes
- say when a shape has been rotated
- know a right angle is 1 quarter turn, 2 quarters is a half turn, 3 quarters is 3x quarter turns and 4 quarters is equal to a whole turn
- identify whether angles are greater than or less than a right angle
- know what parallel means
- know what perpendicular means

### Number

- continue to add 3 digit numbers using column addition and to subtract 2 digit numbers from 3 digit numbers
- continue to add and subtract amounts of money ensuring the use of £ and p sign.
- be able to solve worded problems
- be able to solve problems, including missing number problems, using number facts and more complex addition and subtraction
- solve problems involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
- recall and use multiplication and division facts for the 2, 3, 4, 5, 8 and 10 multiplication tables\*

### Fractions

- write fractions of a discrete set of objects
- understand that mixed order fractions can be called non-unit fractions
- solve problems involving fractions

### Measurement

- know Roman numerals from 1 to X11
- be able to tell the time using 24-hour clocks and 12 hour and 24 hour (analogue)
- estimate and read time with increasing accuracy to nearest minute
- record and compare time in terms of seconds, minutes, hours and o'clock
- compare durations of events [for example, to calculate the time taken by particular events or tasks]

### Statistics

- interpret and present data using bar charts, pictograms and tables
- solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables