

# Year 4 – Phase 1



## Place Value

- count in multiples of 6, 7, 9, 25 and 1000
- find 1000 more or less than a given number
- recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones)
- identify, represent and estimate numbers using different representations
- round any number to the nearest 10 and 100

## Addition and Subtraction

- add and subtract numbers with up to 4 digits using formal written methods
- estimate and use inverse operations to check answers to a calculation
- solve addition and subtraction two-step problems in context using the right method

## Multiplication and Division:

- use place value and other known facts to multiply and divide mentally
- solve problems when multiplying 2-digit numbers by 1-digit numbers

## Fractions

- recognise and show fractions using diagrams
- find out what happens to a number when dividing by 10 or 100
- solve simple measure and money problems involving fractions
- add and subtract fractions with the same denominator
- round decimals with one decimal place to the nearest whole number

## Statistics

- interpret and present data using bar charts, pictograms and tables
- solve one-step and two-step questions about data in bar charts, tables and pictograms such as 'How many more'

## Measurement

- convert between different units of measure
- measure and calculate the perimeter of rectilinear figures in cm and m
- find the area of rectilinear shapes by counting squares

## Geometry

- compare and classify geometric shapes based on properties and sizes
- identify acute and obtuse angles
- identify lines of symmetry in 2D shapes
- complete a symmetrical figure using a line of symmetry
- describe positions on a 2D grid as coordinates in the first quadrant

# Year 4 – Phase 2



## Place Value

- order and compare numbers beyond 1000
- count backwards through 0 to include negative numbers
- round any number to the nearest 10, 100 and 1000

## Addition and Subtraction

- estimate and use inverse operations to check answers
- continue to solve two-step problems in context using the correct method
- add and subtract numbers with up to 4 digits

## **Multiplication and Division:**

- recall and use multiplication and division facts for the 2, 3, 4, 5, 6 and 8 multiplication tables
- use place value and other known facts to multiply and divide mentally, including by 0 and 1, dividing by 1 and multiplying 3 numbers together

## Fractions

- recognise and show, using diagrams, equivalent fractions
- recognise hundredths arise when dividing any number by 100 or tenths by 10
- find out what happens when dividing a 1 or 2-digit number by 10 or 100, and identify the place value of each digit in the answer as ones, tenths and hundredths
- solve simple measures and money problems involving fractions

## Measurement

- estimate, compare and calculate different measures including money in pounds and pence
- read, write and convert time between analogue and digital clocks in 12 and 24 hours

## Geometry

- compare and classify geometric shapes based on their properties and sizes, including quadrilaterals
- identify lines of symmetry in 2D shapes presented in different orientations
- describe movements between positions as translations of a given unit to the left/right and up/down



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# Year 4 – Phase 3



## Place Value

-read Roman numerals to 100 (I to C) and know that over time the numeral system changed to include the concept of 0 and place value

-solve number and practical problems that involve all of the above and with increasingly large positive numbers

## Addition and Subtraction

-add and subtract numbers with up to 4 digits  
-estimate and use inverse operations to check answers to a calculation  
-solve addition and subtraction 2-step problems in contexts, and be able to explain why they chose certain operations/methods

## Multiplication and Division:

-recall multiplication and division facts up to 12x12  
-recognise and use factor pairs and commutativity in mental calculations  
-multiply 2-digit and 3-digit numbers by a 1-digit number using a formal written method  
-solve problems involving multiplying and adding, including: using the distributive law to multiply 2-digit numbers by 1-digit,  
-solve problems involving integer scaling

## Fractions/Decimals

-count up and down in hundredths  
-recognise and write decimal equivalents of any amount of tenths or hundredths  
-recognise and write decimal equivalents to  $\frac{1}{2}$ ,  $\frac{1}{4}$ , and  $\frac{3}{4}$   
-identify the value of digits in numbers as ones, tenths and hundredths  
-compare numbers with the same number of decimal places, up to 2 decimal places.  
-solve simple measure and money problems involving fractions and decimals to 2dp

## Measurement

-estimate, compare and calculate using different measures, including money in pounds and pence  
-solve problems involving converting from hours to minutes, minutes to seconds, years to months and weeks to days.

## Geometry

-compare and classify geometric shapes based on their properties and sizes, including quadrilaterals and triangles  
-identify acute and obtuse angles and compare and order angles, up to two right angles, by size  
-plot specified points and draw sides to complete a given polygon

## Statistics

-interpret and present discrete and continuous data using appropriate graphical methods eg. time graphs and bar charts  
-solve comparison sum and difference problems using data in pictograms, bar charts, tables and other graphs