

## A Year 4 Mathematician

### Autumn Term

#### Number – 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)

Order and compare numbers beyond 1000

Identify, represent and estimate numbers using different representations.

Round any number to the nearest 10, 100 or 1000

Solve number and practical problems that involve all of the above and with increasingly large positive numbers.

Count backwards through zero to include negative numbers.

Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value

#### Number- Addition and Subtraction

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

Estimate and use inverse operations to check answers to a calculation.

Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.

#### Measurement: Length and Perimeter

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

Convert between different units of measure [for example, kilometre to metre]

#### Number – Multiplication and Division

Recall and use multiplication and division facts for multiplication tables up to  $12 \times 12$ .

Count in multiples of 6, 7, 9, 25 and 1000

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as  $n$  objects are connected to  $m$  objects.

### Spring Term

#### Number – multiplication and division

Recall and use multiplication and division facts for multiplication tables up to  $12 \times 12$ .

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Recognise and use factor pairs and commutativity in mental calculations.

Multiply two digit and three digit numbers by a one digit number using formal written layout.

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as  $n$  objects are connected to  $m$  objects.

#### Measurement Area

Find the area of rectilinear shapes by counting squares.

#### Fractions

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

Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.

Add and subtract fractions with the same denominator.

#### Decimals

Recognise and write decimal equivalents of any number of tenths or hundredths.

Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths

Solve simple measure and money problems involving fractions and decimals to two decimal places.

Convert between different units of measure [for example, kilometre to metre]

### Summer Term

#### Decimals

Compare numbers with the same number of decimal places up to two decimal places.

Round decimals with one decimal place to the nearest whole number.

Recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$

Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths

### **Measurement- Money**

Estimate, compare and calculate different measures, including money in pounds and pence.

Solve simple measure and money problems involving fractions and decimals to two decimal places.

### **Time**

Convert between different units of measure [for example, kilometre to metre; hour to minute]

Read, write and convert time between analogue and digital 12- and 24-hour clocks.

Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

### **Statistics**

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

### **Geometry: Properties of shape**

Identify acute and obtuse angles and compare and order angles up to two right angles by size.

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

Identify lines of symmetry in 2-D shapes presented in different orientations.

Complete a simple symmetric figure with respect to a specific line of symmetry.

### **Geometry: Position and Direction**

Describe positions on a 2-D grid as coordinates in the first quadrant.

Plot specified points and draw sides to complete a given polygon.

Describe movements between positions as translations of a given unit to the left/ right and up/ down.

## **A Year 4 Writer**

I can spell words with additional prefixes and suffixes and add them to root words e.g. ation, ous, ion, ian

I can recognise and spell homophones

I can spell the often misspelt words on the y3/4 spelling list

My handwriting is joined well and consistently neat

I can use direct speech in my writing and punctuate it correctly

I can use apostrophes to mark plural possession

I can use a range of punctuation such as CL, FS ! ? ` , " " accurately

I can compose sentences using a range of sentence structures

I can use a range of sentences with more than one clause

I can write in paragraphs

I can make appropriate choices of pronoun and noun within and across sentences

I can use expanded noun phrases

I can use fronted adverbials with a comma

I can use the appropriate tenses

I can use a range of adverbs, conjunctions and prepositions

## **A Year 4 Reader**

I have collected new words and have demonstrated my understanding of them by exploring roots of words, prefixes and suffixes.

I have collected and can read challenging words and found their meanings and recorded these in my reading journal.

I have contributed my understanding of the impact of words and phrases on the reader in my discussion circle.

I can sequence the events of a text.

I can read in front of an audience, sharing my intonation and expression and improve by responding to helpful feedback.

I can ask relevant questions and share them with others to improve my understanding of a text.

In my reading journal i have demonstrated my understanding of inference and deduction.

I can identify the purpose and impact of repetition, personal and professional accounts and short sentences in a text.

I can answer questions on the structure and organisation within a text.

I can refer to specific phrases in a text to justify my responses in my journal/ class journal.

I can record my poetry performance and act on the critique feedback.

I can use headings, indexes and contents to find key information.

I can summarise the key events of a text by writing a blurb.

I am able to demonstrate how quotes can be used to support responses in my class journal/ journal.

I can share my opinion, backed by events in the text, on the blog.

I can act on the feedback given to me in my reading journal when up levelling my response to questions requiring evidence.

I have read at least two books by the same author.

I have read 6 whole text as part of a shared reading experience.