

## Year 4 - Yearly overview

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12
AUTUMN	Number – Place Value				Number- Addition and Subtraction			Measurement - Length and Perimeter	Number- Multiplication and Division			CONSOLIDATION
SPRING	Fractions				Measurement - Area	Time	Decimals			Statistics		CONSOLIDATION
SUMMER	Number- Multiplication and Division		Geometry- Properties of Shape			Geometry- Position and Direction		Decimals		Measurement- Money		CONSOLIDATION

## AUTUMN TERM 1

### PLACE VALUE WEEKS 1-4

- 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.

### NUMBER – ADDITION & SUBTRACTION WEEKS 5-7

- 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.

## AUTUMN TERM 2

### MEASUREMENT – LENGTH AND PERIMETER WEEK 8

- 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 WEEKS 9-11

- 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 1

### FRACTIONS WEEKS 1-4

- 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.

### MEASUREMENT: AREA WEEK 5

- Find the area of rectilinear shapes by counting squares.

### MEASUREMENT: TIME WEEK 6

- 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.

## SPRING 2

### DECIMALS WEEKS 7-9

- 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]

## STATISTICS WEEKS 9-11

- 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.

## SUMMER 1

### NUMBER – NUMBER- MULTIPLICATION AND DIVISION WEEKS 1-3

- 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.

### GEOMETRY- PROPERTIES OF SHAPE WEEKS 4-6

- 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.

## SUMMER 2

### GEOMETRY- POSITION AND DIRECTION WEEK 7

- 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.

### NUMBER – DECIMALS WEEKS 8-9

- 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 WEEKS 10-11

- 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.

Objectives to build in during extra weeks or during starter sessions:

- Read and write numbers to at least 10 000.
- Read and write numbers with up to two decimal places.
- Identify the value of each digit to two decimal places.
- Partition numbers in different ways (e.g.  $2.3 = 2 + 0.3$  &  $1 + 1.3$ ).
- Order and compare numbers beyond 1000.
- Find 0.1, 1, 10, 100 more or less than a given number.

- Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps.
- Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value.
- Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).
- Select a mental strategy appropriate for the numbers involved in the calculation.
- Recall and use addition and subtraction facts for 100.
- Recall and use +/- facts for multiples of 100 totalling 1000.
- Derive and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place).
- Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place.
- Solve addition and subtraction problems involving missing numbers.
- Recognise and use factor pairs and commutativity in mental calculations.
- Use partitioning to double or halve any number, including decimals to one decimal place.
- Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.
- Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
- Understand that a fraction is one whole number divided by another (e.g.  $\frac{3}{4}$  can be interpreted as  $3 \div 4$ ).
- Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators.
- Count on and back in steps of unit fractions.
- Compare and order unit fractions and fractions with the same denominators (including on a number line).
- Recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ .
- Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
- Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties and sizes.
- Order temperatures including those below  $0^{\circ}\text{C}$ .
- Know area is a measure of surface within a given boundary.

- Write amounts of money using decimal notation.
- Recognise that one hundred 1p coins equal £1 and that each coin is 1/100 of £1.

Underline objectives are KEY LEARNING OBJECTIVES in KLIPs.