

Year 4 Autumn 2

Starter suggestions for Number

- Read and write numbers to 10 000.
- Count on and back in 1s, 10s or 100s from any number up to 10,000.
- Count forwards and backwards in equal steps and describe any patterns in the sequence.
- Order a set of random numbers to at least 10,000 including amounts of money and measures involving decimals.
- Recall addition and subtraction facts for 100.
- Recall multiplication facts for 2, 3, 4, 5, 6, 8 and 9x tables.
- Multiply and divide whole numbers by 10 or 100 (whole number answers).
- Double any number up to 100.
- Halve any number up to 200.
- Count in fraction steps, e.g. $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$...

Starter suggestions for Measurement, Geometry and Statistics

- Recognise 2D and 3D shapes in different orientations and describe
- Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties.
- Identify right angles and angles less than and more than a right angle.
- Measure the perimeter of simple 2-D shapes.
- Estimate and compare lengths, volumes/capacities and masses.
- Read measuring scales to an appropriate degree of accuracy.
- Know the number of mm in 1cm, cm in 1m, m in 1km, g in 1kg, ml in 1l, seconds in 1 minute, minutes in 1 hour, hours in 1 day, days in each month, days in a year and leap year.
- Tell and write the time from an analogue clock and 12 and 24-hour clocks.

• Interp		 Interpret data in bar charts, pictograms and tables.
	Main learning	Rationale
Week 1 Mental multiplication	 Recall multiplication and division facts for the 6 time and 9 times table. Use place value, known and derived facts to multiply mentally, including: multiplying by 0 and 1; multiplyit together three numbers. Recognise and use factor pairs and commutativity in calculations. Use partitioning to double or halve any number, includecimals to one decimal place. Select a mental strategy appropriate for the numbers involved in the calculation. 	6 times table. When learning multiplication tables, children should experience a blend of practical, visual activities, pattern spotting, generalising as well as rote learning. Children learn that the commutative law applies to multiplication (but not division) i.e. 5 x 3 = 3 x 5, and that factor pairs can support mental calculation e.g. to multiply by
Week 2 Mental division	 Partition numbers in different ways (for example, 2.3 = 2 + 0.3 and 2.3 = 1 + 1.3). Recall multiplication and division facts for the 6 time and 9 times table. Use place value, known and derived facts to divide mentally, including dividing by 1. Select a mental strategy appropriate for the numbers involved in the calculation. 	In preparation for mental division, children partition numbers in different ways to recognise multiples of the divisor when the
Week 3 Written multiplication	 Multiply two-digit and three-digit numbers by a one number using formal written layout. Choose an appropriate strategy to solve a calculation upon the numbers involved (recall a known fact, calcumentally, use a jotting, written method). Use estimation and inverse to check answers to calculand determine, in the context of a problem, an appropriate of accuracy. Solve problems involving multiplying and adding, including the distributive law to multiply two digit numbers one digit, division (including remainders), integer scaproblems and harder correspondence problems such which n objects are connected to m objects. 	Children build on their understanding of place value and multiplication facts to develop a written method for multiplication. Correspondence problems in which n objects are connected to m objects include a team sports kit with a shirt, shorts and socks and three possible colours for each. How many different combinations could there be? When calculating, children should learn which methods suit the numbers involved and why. Written methods should be agreed by the school and shared
Week 4 Measurement (length including perimeter)	 Estimate, compare and calculate different lengths. Measure and calculate the perimeter of a rectilinear (including squares) in centimetres and metres. Convert between different units of measure (e.g. kilo to metre; hour to minute). 	figure Children develop their estimating and measuring skills in the context of length. They relate length to distance including perimeter. The measures made could be used in the next unit



	Main learning	Rationale
Week 5 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 	Children use the measures from the previous week to present and interpret in different forms. Children learn the difference between discrete and continuous data. Children apply their knowledge of mental and written calculations when answering questions about the data.
Week 6 Assess and review	Assess and review week	It is useful at regular intervals for teachers to consider the learning that has taken place over a term (or half term), assess and review children's understanding of the learning and use this to inform where the children need to go next.