

Year 3 Autumn 1				
Starter suggestic Read and write Count on and b number. Count on and b Describe and ex- back in differen Order a set of rr Recall addition Recall pairs of n Recall multiplica associated divis Double any nur	 numbers to 1000 in figures and words. ack in 1s, 10s or 100s from any two- or three-digit ack in multiples of 4 or 8 from 0. actend number sequences involving counting on or t steps. andom numbers to 1000. and subtraction facts for each number up to 20. nultiples of 100 that make 1000. ation facts for 2, 3, 4, 5 and 10 times tables and derive ion facts. nber up to 50. two-digit number up to 100. Main learning Read and write numbers to at least 1000 in numeral words. Recognise the place value of each digit in a three-di 	 Identi symm Identi vertici Comp object Order and se Descr Recog clockv Interp charts 	ify and describe 3-D shapes, considering faces, edges and es. pare and sort common 2-D and 3-D shapes and everyday ts. and arrange combinations of mathematical objects in patterns equences. ibe position, direction and movement. gnise quarter, half, three-quarter and full turns, including wise and anti-clockwise. oret and answer questions based on simple pictograms, tally s, block diagrams and simple tables. Rationale Understanding of the number system is necessary pre- requisite knowledge for any number work. Children should understand the Base 10 notion in which there	
Week 2 Place value and mental calculation	 number (hundreds, tens and ones). Partition numbers in different ways. Identify, represent and estimate numbers using differepresentations, including the number line. Compare and order numbers up to 1000. Round numbers to at least 1000 to the nearest 10 or Solve number problems and practical problems invot these ideas. Find 1, 10 or 100 more or less than a given number. Add numbers mentally, including: a three-digit num ones; and tens; and hundreds. Subtract numbers mentally, including: a three-digit num ones; and tens; and hundreds. Add and subtract mentally combinations of two-digit numbers. Choose an appropriate strategy to solve a calculation upon the numbers involved (recall a known fact, calcumentally, use a jotting, written method). Select a mental strategy appropriate for the numbers involved in the calculation. Understand and use take away and difference for 	100. olving ber and number o based ulate	are 10 numerals (0-9) and these can be organised in different ways to form any number. This is based on grouping in tens i.e. ten 1s are the same as one 10; ten 10s are the same as one 100; ten 100s are the same as one 1000 and so on. And vice versa. Partitioning numbers in different ways is an objective from Year 2, but requires consolidating to support later work on calculations. When comparing and ordering numbers, children should use a variety of resources, including the number line. Children apply their knowledge of place value to mentally calculate using addition and subtraction, recognising which digits will change and which will stay the same and why. Children should continue to count in ones, tens and hundreds. Children should also mentally calculate with two-digit numbers in which the answer is a three-digit number.	
Week 3 2-D shape, length and mental calculation	 Onderstand and dise take away and difference for subtraction, deciding on the most efficient method for numbers involved, irrespective of context. Draw 2-D shapes and describe them. Recognise angles as a property of shape. Measure, compare, add and subtract: lengths (m/cm Understand that perimeter is a measure of distance a the boundary of a shape. Measure the perimeter of simple 2-D shapes. Derive and use addition and subtraction facts for 1000 Add and subtract numbers using concrete objects, pice representations, and mentally, including: a 2-digit number and ones a 2-digit number and tens two 2-digit numbers Select a mental strategy appropriate for the numbers involved in the calculation. Understand and use take away and difference for subtraction, deciding on the most efficient method for numbers involved, irrespective of context. 	n/mm). around). ctorial	Children measure distances using a variety of tools and units and record these measurements in preparation for the following week. They measure and draw 2-D shapes. This gives children the opportunity to apply their place value and mental calculation knowledge in the context of length. Perimeter is a measure of distance linking length with mental addition and the opportunity to problem solve in context. Children should use mixed units e.g. 4m and 34cm and know simple equivalence between units.	



	Main learning	Rationale
Week 4 Statistics and mental calculation	 Interpret and present data using bar charts and tables. Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and tables. Derive and use addition and subtraction facts for 100. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and ones a 2-digit number and tens two 2-digit numbers adding three 1-digit numbers. Select a mental strategy appropriate for the numbers involved in the calculation. Understand and use take away and difference for subtraction, deciding on the most efficient method for the numbers involved, irrespective of context. 	The tables and bar charts can be created from measurements taken the previous week. Children are applying their knowledge of place value and mental calculation in the context of tables and bar charts.
Week 5 Written addition	 Add numbers with up to three digits, using formal written method of columnar addition. Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method). Estimate the answer to a calculation and use inverse operations to check the answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition. 	Children build on their understanding of place value and skills in mental calculation to develop a written method for addition. Written methods should be agreed by the school and shared in the progression in written calculations policy. Efficient written methods are required to be taught by the end of Key Stage 2.
Week 6 Written subtraction	 Subtract numbers with up to three digits, using formal written method of columnar subtraction. Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method). Estimate the answer to a calculation and use inverse operations to check the answers. Solve problems, including missing number problems, using number facts, place value, and more complex subtraction. 	Children build on their understanding of place value and skills in mental calculation to develop a written method for subtraction. Written methods should be agreed by the school and shared in the progression in written calculations policy. Efficient written methods are required to be taught by the end of Key Stage 2.