

Autumn 1		
	Strands	Weekly summary
Autumn 1	Mental addition and subtraction ( <b>MAS</b> )	Addition & subtraction using knowledge of number bonds to 100
	Number and place value ( <b>NPV</b> ); Mental addition and subtraction ( <b>MAS</b> )	Place value up to 4 digits Use of a number line to add & subtract Comparing using < & >
	Mental multiplication and division ( <b>MMD</b> ); Fractions, ratio and proportion ( <b>FRP</b> )	Using & applying tables knowledge in mental calculations (TU x U) Finding fractions of amounts
	Measurement ( <b>MEA</b> ); Mental addition and subtraction ( <b>MAS</b> ); Decimals, percentages and their equivalence to fractions ( <b>DPE</b> )	Time to the nearest minute on analogue and digital clocks including time differences Measuring lengths & conversion facts including decimal notation
	Written addition and subtraction ( <b>WAS</b> )	Add and subtract two 3-digit numbers using expanded column addition, use inverse operations to check answers
Autumn 2		
Week	Strands	Weekly summary
Autumn 2	Mental multiplication and division ( <b>MMD</b> ); Fractions, ratio and proportion ( <b>FRP</b> )	Doubling & halving 3-digit numbers Equivalent fractions including reducing to simplest form.
	Number and place value ( <b>NPV</b> ); Written addition and subtraction ( <b>WAS</b> ); Decimals, percentages and their equivalence to fractions ( <b>DPE</b> )	Place value in decimals Add two 4-digit numbers using written and mental addition methods
	Measurement ( <b>MEA</b> ); Statistics ( <b>STA</b> )	Convert weight & capacity involving measures to the nearest whole 100, e.g. 1400ml Read scales to the nearest 100ml including estimating, drawing bar charts
	Number and place value ( <b>NPV</b> ); Mental addition and subtraction ( <b>MAS</b> ); Written addition and subtraction ( <b>WAS</b> )	Round numbers up 4 digits to the nearest: 10, 100 and 1000 Column subtraction (3-digits) Using inverse operations to count on for subtraction.
	Mental multiplication and division ( <b>MMD</b> ); Written multiplication and division ( <b>WMD</b> )	Mental multiplication to multiply 3-digit by 1-digit numbers extending to written methods Begin to estimate products Divide numbers (2 digits) by 1-digit numbers with no remainder, then with a remainder.

Spring 1		
Week	Strands	Weekly summary
Spring 1	Number and place value ( <b>NPV</b> )	Place 4-digit numbers on landmarked lines; round 4-digit numbers to the nearest 10, 100 and 1000; mentally add and subtract to/from 4-digit and 3-digit numbers; count on and back in multiples of 10, 100 and 1000; count on in multiples of 25 and 50; add and subtract multiples of 10 and 100 to/from 4-digit numbers.
	Mental multiplication and division ( <b>MMD</b> ); Written multiplication and division ( <b>WMD</b> ); Written addition and subtraction ( <b>WAS</b> );	Use formal written methods for subtraction of pairs 3-digit numbers; learn the 7x table; use written methods to multiply 3-digit numbers by 1-digit numbers
	Mental multiplication and division ( <b>MMD</b> ); Fractions, ratio and proportion ( <b>FRP</b> )	Use mental multiplication and division strategies; find complex fractions of 2-digit and 3-digit numbers e.g. $\frac{3}{4}$ $\frac{5}{6}$ ; find equivalent fractions and use them to simplify fractions (halves, thirds, quarters)
	Geometry: properties of shape ( <b>GPS</b> )	Recognise and compare acute, right and obtuse angles; draw lines of a given length; identify perpendicular and parallel lines; recognise and draw lines of symmetry in shapes; sort 2D shapes and draw shapes with given properties & criteria, including symmetry;
	Mental multiplication and division ( <b>MMD</b> ); Written multiplication and division ( <b>WMD</b> ); Mental addition and subtraction ( <b>MAS</b> )	Mental division of 2 & 3-digit numbers by 1-digit numbers; divide numbers by 1-digit numbers to give answers between 10 and 25, with remainders; identify factor pairs and use these to solve multiplications and divisions with larger numbers; use number lines to find complements to multiples of 1000 including change from £10, £20 and £50
Week	Strands	Weekly summary
Spring 2	Decimals, percentages and their equivalence to fractions ( <b>DPE</b> ); Number and place value ( <b>NPV</b> ); Written addition and subtraction ( <b>WAS</b> )	Recognise, use, compare and order decimal numbers; round decimals numbers to the nearest whole number; divide 2-digit numbers by 10 to get decimal numbers including decimal numbers; divide 3-digit multiples of ten by 100 to get decimal numbers and the inverse; add four digit numbers using written method with answers greater than 10,000
	Mental addition and subtraction ( <b>MAS</b> ); Written addition and subtraction ( <b>WAS</b> ); Decimals, percentages and their equivalence to fractions ( <b>DPE</b> )	Add amounts of money using written methods and mentally, selecting the appropriate strategy; subtract, choosing appropriate mental strategies: counting up or taking away; solve subtractions using a suitable written method
	Measurement ( <b>MEA</b> )	Tell the time on a 24 hour clock, using am and pm correctly; use 24 hour clock in calculating intervals of time; measure and calculate perimeters of straight-lined shapes where each side is labelled in cm and m; find missing lengths in straight-lined composite shapes; find the perimeters of straight-lined shapes with some lengths not marked; convert from one unit of length to another; solve word problems involving lengths including those involving perimeters
	Number and place value ( <b>NPV</b> ); Written addition and subtraction ( <b>WAS</b> ); Mental addition and subtraction ( <b>MAS</b> )	Understand place value in 4-digit numbers including partitioning; solve subtraction of 4-digit numbers using column subtraction; choose an appropriate method to solve subtractions, either mental or written, and either column or number line
Written multiplication and division ( <b>WMD</b> )	Use written methods to multiply 3-digit numbers by 1-digit numbers; use mental strategies and tables facts to divide 2 & 3-digit numbers by 1-digit numbers to give answers between 10 and 35, without remainders; solve word problems	

Summer 1		
	Strands	Weekly summary
Summer 1	Number and place value (NPV)	Read, write and compare 4-digit numbers, writing numbers in between and placing them on a line; find 1000 more or less than any given number; read, write and compare 5-digit numbers; recognise what each digit represents in a 5-digit number; read, use and compare negative numbers in the context of temperature
	Decimals, percentages and their equivalence to fractions (DPE)	Multiply and divide numbers by 10 and 100 including decimals (tenths and hundredths); read and write decimals (to 1 and 2 places), understanding that these represent parts (tenths and hundredths) of numbers; mark one and two place decimals on a line; count in tenths (0.1s) and hundredths (0.01s); say the number one tenth (0.1) and one hundredth (0.01) more or less than a given number; round decimal numbers to the nearest whole number
	Mental multiplication and division (MMD); Written multiplication and division (WMD); Number and place value (NPV)	Learn 11 and 12x tables; revise all times tables; develop and use effective mental multiplication strategies; use rounding to estimate answers; use a written method to multiply 3-digit numbers, including amounts of money by 1-digit numbers; multiply 2-digit and 3-digit numbers by 1-digit numbers; understand how division 'undoes' multiplication and vice versa; divide above the tables facts using multiples of ten
	Number and place value (NPV); Geometry: properties of shapes (GPS); Measurement (MEA)	Recognise and write Roman numerals to 100; begin to know the history of our number system including zero; calculate area and perimeter of different shapes; recognise, name and classify 2D shapes identifying polygons, regular and irregular; sort 2D and 3D shapes according to properties including types of quadrilaterals and triangles
	Decimals, percentages and their equivalence to fractions (DPE); Fractions, ratio and proportion (FRP)	Understand, read and write two place decimals; compare two place decimals in the context of lengths; add and subtract 0.1 and 0.01; say a number one tenth (0.1) and one hundredth (0.01) more or less than a given number; round decimals to nearest whole number; write fractions with different denominators with a total of 1; recognise decimal and fraction equivalents
Week	Strands	Weekly summary
Summer 2	Mental addition and subtraction (MAS); Mental multiplication and division (MMD); Written multiplication and division (WMD)	Mentally add a 2-digit number to a 2-, 3- or 4-digit number; subtract 2-, 3-, and 4-digit numbers using counting up; derive factors of 2-digit numbers; use factors and doubling to solve multiplication mentally; solve division using mental strategies; understand that division and multiplication are inverse operations; solve word problems, including 2-step problems, choosing an appropriate method
	Written addition and subtraction (WAS); Mental addition and subtraction (MAS)	Solve written addition of two 4-digit numbers; add amounts of money using column addition; solve 4-digit subtractions using written column method (decomposition); solve 4-digit – 3-digit subtractions using written column method (decomposition); check subtraction using addition; solve word problems choosing an appropriate method
	Geometry: position and direction (GPD); Statistics (STA)	Use co-ordinates to draw polygons and find missing co-ordinates of shapes; draw and interpret bar charts and pictograms; draw line graphs and understand that intermediate points have meaning
	Written multiplication and division (WMD); Fractions, ratio and proportion (FRP); Decimals, percentages and their equivalence to fractions (DPE)	Use formal written methods to multiply 3-digit numbers by 1-digit numbers; find non-unit fraction of amounts; add fractions with like denominators, including totals greater than 1; divide by 10 and 100 (to give answers with 1 and 2 decimal places)
	Written multiplication and division (WMD); Mental multiplication and division (MMD); Fractions, ratio and proportion (FRP)	Multiply 2-digit numbers by 11 and 12; multiply 2-digit numbers by numbers between 10 and 20 using the grid method; begin to use the grid method to multiply pairs of 2-digit numbers; use mental strategies and tables facts to divide 2-digit and 3-digit numbers by 1-digit numbers with and without remainders; find fractions of amounts

