MATHS: Number and Place Value				
PLACE VALUE	ADDITION AND SUBTRACTION	MULTIPLICATION AND DIVISION	FRACTIONS, DECIMALS, PERCENTAGES	
Count to and across 100 from any given number.	Know and represent number bonds to 20 and their related subtraction facts.	To identify equal groupings as the first step in multiplying; to reinforce the idea that the arrangement of objects does not impact on the number of objects.	To split an object (shape) into two equal parts; to identify shapes that have been split into two equal parts.	
To understand the value of the tens and ones digits in a number; to use multiple methods of representing and constructing a number.	To recognise these symbols = + - and write number sentences using them.	To understand that doubling is creating an identical number to the one you started with; to understand that doubling is the same as saying two groups of the same amount.	To split an object (shape) into four equal parts; to identify shapes that have been split into four equal parts.	
Read and write numbers up to 100 in numerals and words.	To add to 20 by separating the ones and tens	To solve word problems using equal groupings as the basis for multiplication.	Share and group objects into halves and quarters; to determine half of a number and a quarter of a number.	
To count in sequences of 2, 5 and 10.	To subtract within 20 by subtracting from only the ones column.	Divide even numbers into equal groups using concrete materials.	Recognise, find, name and write fractions $1/3$ , $\frac{1}{4}$ , $2/4$ , $\frac{1}{2}$ of a length, shape or quantity.	
Count numbers up to 100, counting by 1, 2, 5, 10.	To apply addition and subtraction to multi-step word problems; to use number bonds to make 10 when adding.	Divide even numbers equally into groups.	Write simple fractions (for example $\frac{1}{2}$ of 6 = 3.)	
Count numbers in 3s.	To use pictorial and visual representations to help solve word problems.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	Recognise the equivalence of $2/4$ and $\frac{1}{2}$ .	
Recognise the place value of a 2 digit number (tens and ones).	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (*), division (+) and equals (=) signs	Count up in fractions ( $\frac{1}{2}$ , 1, 1 $\frac{1}{2}$ , 2)	
Recognise and describe patterns with more complex numbers, in particular 3 and 5.	Add and subtract numbers using concrete objects, pictorial representations, and mentally 2 digit and ones, 2 digit and tens)	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	I can recognise, find and write fractions of a set of objects: unit fractions (where the numerator is 1) and non-unit fractions	

			(where the numerator is not 1) with small denominators.
Read and write numbers to at least 100 in numerals.	Add and subtract using concrete objects and pictorial representations, including those involving numbers, quantities and measures.	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	I can recognise and use fractions as numbers: unit fractions (where the numerator is 1) and non-unit fractions (where the numerator is not 1) with small denominators.
	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.	I can multiply a 2 digit number by a single digit number using a mental method, then progress to formal written methods	I can compare and order unit fractions, and fractions with the same denominators.
Read and write numbers to 100 in words.	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	I can solve problems using multiplication and division facts for x3, x4 and x8, including missing number problems.	I can solve problems that involve fractions.
I can count in multiples of 4, 8, 50 and 100.	I can use column addition and subtraction for numbers with up to 3-digits as a written method.	I can recall multiplication and division facts for up to 12 $\times$ 12 $$	I can write any number of tenths and hundreds as a decimal and recognise fraction equivalences eg. 0.7 = 7/10 / 0.07 = 7/100
I can recognise the value of each digit in a 3 digit number	I can use the inverse operation to check my answers	I can use formal written layout to multiply 2-digit and 3-digit numbers by a one-digit number.	I know the decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$ .
I can order and compare numbers up to 1000	I can add and subtract numbers mentally (3 digit number and ones, tens and hundreds).	I can solve problems involving x and + including: corresponding problems such as n objects are connected to m objects.	I can round decimals with one decimal place to the nearest whole number.
I can read and write numbers up to 1000	I can use addition and subtraction to solve number problems.	I can solve problems involving $x$ and $+$ including: problems involving scaling numbers (eg. $8 \times 8 = 64 \times 80 \times 80 = 6400$ )	I can identify equivalent fractions of a given fraction, represented visually, including tenths and hundredths.

I can solve number problems and practical problems involving place value ideas	I can use column addition and subtraction for numbers with up to 4-digits.	I can solve problems involving x and + including: using the distributive law to multiply two-digit numbers by a one-digit number (eg. 206 x 4 = 200x4 + 6x4	I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number
I can count in multiples of 6, 7, 9, 25 and 1000.	I can solve two step problems using addition and subtraction, deciding which operations and methods to use and why.	I can identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers	I can round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
I can round any number to the nearest 10, 100 or 1000.	I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and why.	I know and can use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers (up to 100)	I can recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction
I can count backwards through zero to include negative numbers.	I can use column addition and subtraction for numbers with more than 4-digits.	I can use a formal written method to multiply numbers up to 4 digits by a one or two-digit number, including long multiplication (interpreting remainders)	I can add and subtract fractions with the same denominator and multiples of the same number.
I understand the value of each digit in a 4-digit number.	I can add and subtract numbers mentally with increasingly large numbers	I can use short division to divide numbers up to 4 digits by a one-digit number, I can use a remainder.	I can read and write decimal numbers as fractions (e.g. 0.71 = 71/100)
I can order and compare numbers beyond 1000.	I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	I can multiply and divide whole and decimal numbers by 10, 100 and 1000	I can solve problems involving percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.
I can read and write and order numbers to 1,000,000 and recognise the value of each digit.	I can use knowledge of order of operations to carry out calculations involving brackets and understand what BODMAS means.	I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	I can compare and order fractions, including fractions greater than 1.
I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	I can use formal methods to solve multi-step problems.	I can solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes	I can add and subtract fractions with different denominators; and multiply and divide pairs of fractions, expressing my answer in its simplest form.

I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	I can use long division for 4dgt / 2dgt and deal with the remainder	I can recall and use equivalences between simple fractions, decimals and percentages.
I understand what negative numbers are and when they might be used.	I can solve problems involving addition, subtraction, multiplication and division	I can use long multiplication for 4dgt $\times$ 2 dgt	I can solve problems involving ratio (e.g. 2:1) where missing values can be found by scaling up or down using multiplication and division facts.
I understand and can use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.	I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy	I can identify common factors, common multiples and prime numbers	I can calculate given percentages (e.g. of measures, and such as 15% of 360) and use percentages for comparison (eg. 20% blue 80% red)
I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals			
I can read and write any number up to 10 000 000 and determine the value of each digit. (This includes large numbers and decimals).			
I can round any whole number to any required degree of accuracy (nearest 10, 100, and 1000).			
I can use negative numbers in context, and calculate intervals across 0			

MATHS: Algebra	
I can use simple formulae	
I can generate and describe linear number sequences	
I can express missing number problems algebraically	
I can find pairs of numbers that satisfy an equation with 2 unknowns	