Mathematics Learning Continuum for Number - Key Stage 1

M3a	M3b	Y2
• Count forwards and backwards from 0 to 20, understanding that numbers increase and decrease in size and identify a number that is one more or one less than a given number • Read and write numerals from 0 to 9 • Know that addition is combining two groups and subtraction is taking away • Solve problems involving the addition and subtraction of single digit numbers up to 10 • Count to and across 100, forwards and backwards • Count in multiples of 2 • Given a number, identify one more and one less • Understand maths ideas in everyday situations • Use problem-solving in role-play • With support can represent maths work with objects and pictures • Begin to recognise one half	• Demonstrate an understanding of place value of tens and ones in a 2-digit number using resources to support them if necessary • Demonstrate an understanding of the mathematical symbols of, add, subtract and equal to • Use number bonds from 1 to 5 (e.g. partitioning the number 5 as 0 + 5, 1 + 4, 2 + 3, 3 + 2, 4 + 1, 5 + 0) • Use concrete objects to demonstrate the commutative law and inverse relationships involving addition and subtraction e.g. 3 + 2 = 5, therefore 2 + 3 = 5 and 5 - 3 = 2 and 5 - 2 = 3) • Put up to 20 items into groups of 2 or 5 or into 2 or 5 equal groups (e.g. give the pupil 5 hoops and 15 objects and ask them to share them equally between the hoops • Represent maths work by creating simple diagrams / graphs • Use representations to draw simple conclusions e.g. diagrams and graphs • Count in multiples of 2, 5 and 10 • Can add and subtract number to 20 and recall some number facts e.g. 10-2 = 8 • Continue a simple pattern of four e.g. red, red, blue, orange • Read, write, count and order numbers to 20 • Knows one more and one less for numbers to 20 • identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, fewer, most, least	• Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward • Recall the multiples of 10 below and above any given 2 digit number • Recognise the place value of each digit in a two-digit number (tens, ones) • Read and write numbers to at least 100 in numerals and in words • Use place value and number facts to solve problems • Partition and combine numbers using apparatus if required (e.g. partition 76 into tens and ones [7 tens and 6 ones]; combine 6 tens and 4 ones [64]) • Solve addition and subtraction problems • Use number bonds and related subtraction facts within 20 (e.g. 18 = 9 + □ ; 15 = 6 + □) • Recall and use addition and subtraction facts to 20 and derive related facts up to 100 • Recognise and use the inverse relationship between addition and subtraction • Recall and use multiplication and division facts for 2s, 5s and 10s, including recognising odd and even numbers • Calculate and write mathematical statements for multiplication and division • Show that multiplication is commutative and division is not • Solve multiplication and division problems • Recognise, find, name and write common fractions • Recognise the equivalence of 2/4 and ½ • Add and subtract a 2-digit number and ones and a 2-digit number and tens where no regrouping is required (e.g. 23 + 5; 46 + 20), they can demonstrate their method using concrete apparatus or pictorial representations • Recall doubles and halves to total 20 (e.g. and knows that double 2 is 4, double 5 is 10 and half of 18 is 9) and divide simple shapes into halves and quarters • Work out calculations involving two 2-digit numbers using an efficient mental strategy (e.g. using known facts, multiples of ten, regrouping, rounding etc) • Solve complex missing number problems (e.g. 14 + □ ⁞ 3 = 17; 14 + Δ = 15 + 27) • identify, represent and estimate numbers using different representations, including the number line • compare and order numbers from 0 up to 100 using symbols ≤ ≥ =

forwards backwards count multiple one more one less add addition plus total altogether subtract subtraction take away difference between partition groups lots of equal to equally diagram graph pattern more than less than fewer most least tens ones number bonds inverse opposite odd even equivalent fractions half quarter halves doubles estimate compare order multiply divide multiplication division calculate