

KS1 and KS2 mental maths and basic skills progression



Drawing from the national curriculum, the statements below for each year group show the mental maths skills and basic number facts the children need to be fluent in by the end of that academic year.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number/Place Value	 Count to and across 100, forwards and backwards (starting from 0, 1, or any given number) Count in multiplies of 2s, 5s and 10s Find one more or less than a given number Read and write numbers 1-20 in numerals and words 	 Count in steps of 2,3 and 5 from any given number, forward and backward Count in 10s from any given numbers, forward and backwards Read and write numbers to at least 100 in numerals and words 	 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Read and write number to a 1000 in numerals and words 	 count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number count backwards through zero to include negative numbers round any number to the nearest 10, 100 or 1000 read Roman numerals to 100 (I to C) 	 count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 count forwards and backwards with positive and negative whole numbers, including through zero round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 read Roman numerals to 1000 (M) and recognise years written in Roman numerals. 	• Round any whole numbers to a required degree of accuracy

Addition and Subtraction	 Represent and use number bonds and related subtraction facts within 20 (e.g. 13+ 7 = 20 / 7 + 13 = 20 / 20 - 13 = 7 / 20 - 13 = 7) 	 Recall and use addition and subtraction facts to 20 fluently add and subtract numbers mentally, including: a two-digit number and ones, a two-digit number and tens, two two-digit numbers, adding three one-digit numbers 	 add and subtract numbers mentally, including: a three-digit number and ones, a three- digit number and tens, a three- digit number and hundreds 		 add and subtract numbers mentally with increasingly large numbers 	 perform mental calculations, including with mixed operations and large numbers
Multiplication and Division	 Count in 2s, 5s and 10s Doubling and halving 	 recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables (including recognising odd and even numbers) 	 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 	 recall multiplication and division facts for multiplication tables up to 12 × 12 recognise and use factor pairs in mental calculations 	 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 	 perform mental calculations, including with mixed operations and large numbers identify common factors, common multiples and prime numbers

			 multiply and divide numbers mentally drawing upon 	
			known facts	