

## Maths Curriculum Assessment Grid for Years 1 to 6

Calculation (including algebra)					
Y1	Y2	Y3	Y4	Y5	Y6
Use the language of put together add, altogether, total, take away, difference, more than, less than	Extend language to include same and difference	Children should use varied language of all four operations			
Read, write and interpret mathematical statements involving +, -, = signs					
Represent and use number bonds and related subtraction facts within 20	Recall and use + and - facts to 20 fluently				
Memorise bonds to 10 and 20 in several forms e.g. $9 + 7 = 16$ , $16 - 7 = 9$ , $7 = 16 - 9$	Derive and use + and - facts to 100 e.g. $3 + 7 = 10$ , $30 + 70 = 100$				
Add and subtract 1 and 2 digit numbers to 20 (including 0)	Add and subtract numbers using concrete objects, pictorial representations and mentally including TU±Us, TU±Tens, TU±TU and U±U±U	Add and subtract numbers mentally including HTU±Us, HTU±Tens and HTU±Hundreds	Practice mental and written methods with large numbers to increase fluency	Practice mental and written methods with large numbers to increase fluency	Practice mental and written methods with large numbers to increase fluency
Solve missing number problems to 20 e.g. $7 = ? - 9$	Show that addition of 2 numbers can be done in any order (commutative)	Add and subtract numbers with up to 3 digits efficiently (written)	Add and subtract up to 4 digits efficiently (written) including decimals	Add and subtract more than 4 digits efficiently (written) including decimals	Explore the 4 operations using brackets
Realise the effect of +, - and 0	Show subtraction of one number from another cannot be done in any order	Solve missing number problems beyond 100 (mentally)			
Solve simple 1 step + and - problems using concrete objects, pictorial representations and arrays with teacher support	Recognise the inverse relationship between + and - and use this to check calculations (including missing number problems)	Estimate answers and use the inverse to check calculations	Estimate and use the inverse to check calculations	Use rounding to check answers and calculations (+/-)	Use estimating to check answers (all four operations)
Solve simple 1 step x problems using concrete objects, pictorial representations and arrays with teacher support	Recall and use $\times/\div$ facts for 2, 5 and 10x tables including recognising odd and even numbers	Recall and use $\times/\div$ facts for the 3, 4, 8x tables	Recall $\times/\div$ facts for $\times$ table facts up to $12 \times 12$	Identify multiples and factors including all factor pairs and common factors of 2 numbers	Identify common factors, common multiples and prime numbers
		Connect 2, 4, 8x tables through doubling	Multiply 3 numbers together		
Solve simple $\div$ problems using concrete objects, pictorial representations and arrays with teacher support	Calculate mathematical statements for $\times/\div$ within 2, 5 and 10x tables and write them using the symbols	Write mathematical statements for $\times$ and $\div$ using tables they know including TU×U	$\times$ and $\div$ by 0 and 1 (HTU)	Know and use prime numbers, prime factors and composite (non-prime) numbers	
			Use place value, known and derived facts to $\times$ and $\div$	Recall prime numbers up to 100	Multiply numbers up to 4 digits by a 2 digit whole number using an efficient written method
Understand grouping and sharing of small quantities	Recognise and use the inverse relationship between $\times/\div$	Develop mental $\times$ and $\div$ strategies	Recognise and use factor pairs and commutativity	Recognise square and cubed numbers and the notation for squared and cubed	
			Multiply HTU×U and TU×U using written methods	Multiply ThHTU×U and ThHTU×TU using an efficient written method	Mentally solve 4 operation calculations
Double small numbers and quantities	Demonstrate that $\times$ of two numbers can be done in any order	Develop reliable written methods for $\times/\div$ beginning with TU×U (see written methods policy)	Divide numbers up to 3 digits by a one digit number using an efficient written method	Multiply numbers mentally using known facts	B.O.D.M.A.S
Find $\frac{1}{2}$ and $\frac{1}{4}$ of small numbers, objects and quantities	Demonstrate that $\div$ of one number by another cannot be done in any order	Develop strategies to find all possibilities		Divide numbers mentally using known facts	Divide numbers up to 4 digits by a 2 digit whole number using efficient written methods including remainders, fractions or rounding by context
	Connect 10x table to P.V			Divide numbers up to 4 digits by a one digit number using an efficient written method	
	Connect 5x table to clock face divisions			Interpret remainders in context	
	$\times$ and $\div$ mentally by 10 and 100	$\times$ and $\div$ mentally by 10, 100 and 1000	$\times$ and $\div$ mentally including 1dp, 10, 100 and 1000	Multiply and divide whole numbers and decimals by 10, 100 and 1000	
				Scale by simple fractions and simple rates	
				<b>ALGEBRA</b>	
				Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Use two variables to find all possibilities combinations	