

Curriculum progression

Number: Multiplication and Division

	Multiplication and Division Facts									
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
I know doubles of	I know my 0 times	I know multiplication	I know multiplication	I know multiplication	I know multiplication	I know multiplication				
numbers within 10 so I	table so I can recall	and division facts for 2	and division facts for 6	and division facts for	and division facts for	and division facts for				
can recall them.	facts.	so I can recall them.	so I can recall them.	multiplication tables	multiplication tables	multiplication tables				
				up to 12x12 so I can	up to 12x12 so I can	up to 12x12 so I can				
I know halves of the	I know my 1 times	I know multiplication	I know multiplication	recall them.	recall them.	recall them.				
even numbers within	table so I can tecall	and division facts for 5	and division facts for 4							
10 so I can recall	facts.	so I can recall them.	so I can recall them.							
them.										
	I know my 10 times	I know multiplication	I know multiplication							
	table so I can recall	and division facts for	and division facts for 8							
	facts	10 so I can recall	so I can recall them.							
		them.								
		I know multiplication								
		and division facts for 3								
		so I can recall them.								



	Mental Calculations								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
I know how to double numbers within 10. I know how to half numbers within 10.		I know multiplication of two numbers can be done in any order (commutative) and division of one number by another		I know how to use place value, known and derived facts to multiply and divide mentally including multiplying by 0 and 1	I know how to multiply and divide numbers mentally so I can use known facts.	I know how to perform mental calculations including with mixed operations and large numbers			
		cannot.		and dividing by 1, multiplying together three numbers I know how to use commutativity in mental calculations					



Written Methods								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	I know the x means to	I know how to	I know how to write	I know how to	I know how to	I know how to		
	multiply.	calculate	and calculate	multiply two-digit and	multiply numbers up	multiply multi-dig		
		mathematical	mathematical	three-digit numbers	to 4 digits by a one- or	numbers up to 4		
	I know () means	statements for	statements for	by a one-digit number	two-digit number	by a two-digit wh		
	divide.	multiplication and	multiplication and	using a formal written	using a formal written	number using the		
		division within the	division using the	method	method including long	formal written		
	I know = means	multiplication tables	multiplication tables		multiplication for two-	method of long		
	equals.		that they know		digit numbers	multiplication		
	·		including two-digit			·		
		I know the x means to	numbers times one-		I know how to divide	I know how to di		
		multiply.	digit numbers		numbers up to 4 digits	numbers up to 4		
					by a one-digit number	by a two-digit wh		
		I know () means			using the formal	number using the		
		divide.			written method of	formal written		
					short division and	method of long		
		I know = means			interpret remainders	division		
		equals.			appropriately for the			
					context	I know how to		
						interpret remain		
					I know how to	as whole numbe		
					multiply and divide	remainders, frac		
					whole numbers and	or by rounding as		
					those involving	appropriate for t		
					decimals by 10, 100	context		
					and 1000			
						I know how to di		
						numbers up to 4		
						by a two-digit nu		
						using the formal		
						written method		
						short division wh		
						appropriate		
						interpreting		



			remainders according
			to the context

	Properties of Numbers: Multiples, Factors, Primes, Square and Cube Numbers							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
				I know how to recognise and use factor pairs	I know how to recall multiples and factors including finding all factor pairs of a number and common factors of two numbers. I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers I know how to establish whether a number up to 100 is prime and recall prime numbers up to 19 I know how to recognise and use square numbers and	I know how to identify common factors, common multiples and prime numbers		
					cube numbers and the			
					notation for squared and cubed.			



	Order of operations								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
					I know how to solve problems involving addition, subtraction, multiplication and division Understand the meaning of the equals sign	I know how to use my knowledge if the order of operations to carry out calculations involving the four operations			

	Inverse Operations, estimating and checking answers									
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
		I know how to show		I know how to recognise		I know how to use				
		that multiplication of		and use commutativity		estimation to check				
		two numbers can be				answers to				
		done in any order				calculations.				
		(commutative) and								
		division of one								
		number by another								
		cannot.								



	Problem Solving									
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
	I know how to solve one step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	I know how to solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods multiplication and division facts including problems in context.	I know how to solve problems including missing number problems, involving multiplication and division. I know how to solve positive integer scaling problems I know how to solve correspondence problems in which (n) objects are connected to (m) objects.	I know how to solve problems involving multiplying and adding including using the distributive law to multiply two-digit numbers by one digit. I know how to solve integer scaling problems I know how to solve correspondence problems such as (n) objects are connected to (m) objects.	I know how to solve problems involving multiplication and division including using their knowledge of factors, multiplies, squares and cubes I know how to solve problems involving multiplication and division including scaling by simple fractions and problems involving simple rates	I know how to use estimation in the context of a problem an appropriate degree of accuracy Solve problems involving addition, subtraction, multiplication and division				