



English Progression  
Writing Expectation History  
Mathematics DT Science PE Languages  
Art Geography Computing Differentiation  
Progression Expectation **National Curriculum**  
Languages English Writing Progression  
Differentiation Science Art  
Mathematics Expectation

**Progression in the new National Curriculum**

Multiplication and division						
Rec/ELG	Y1	Y2	Y3	Y4	Y5	Y6
		Recall & use multiplication & division facts for the <b>2, 5, 10 tables</b> , incl recognising odd & even nos.	Recall & use the <b>multiplication &amp; division facts for the 3, 4, 8 tables</b> .	Recall <b>multiplication &amp; division facts for tables up to 12x12</b>	Identify all <b>multiples &amp; factors</b> , including finding all factor pairs of a number, & common factors of two numbers.	Identify <b>common factors, common multiples &amp; prime numbers</b> .
					Know & use the <b>vocabulary of prime numbers, prime factors &amp; composite</b> (non-prime) numbers.	
					Establish where a number up to 100 is <b>prime</b> & recall prime numbers up to 19.	
		Calculate the <b>mathematical statements</b> for multiplication & division within the multiplication tables & write them using $\times$ $\div$ = signs.				
		Show that multiplication of two numbers can be done in any order ( <b>commutative</b> ) & division of one number by another cannot.		Recognise & use factor pairs & <b>commutativity</b> in mental calculations.		
					Multiply & divide numbers <b>mentally</b> drawing upon known facts.	Perform <b>mental</b> calculations, incl mixed operations & large numbers.
			Write & calculate mathematical statements for multiplication & division <b>using the multiplication tables</b> that they know, incl 2-digit $\times$ 1-digit, using mental & progressing to formal written methods.	<b>Multiply</b> 2-digit & 3-digit numbers by a 1-digit number using formal written layout.	<b>Multiply</b> numbers up to 4-digits by a 1-digit or 2-digit number using a formal written method, including long multiplication for 2-digit numbers.	<b>Multiply</b> multi-digit numbers up to 4-digits by a 2-digit whole number using the formal written method of <b>long multiplication</b> .
					<b>Divide</b> numbers up to 4-digits by a 1-digit number using the formal written method of short division & interpret remainders appropriately for the context.	<b>Divide</b> numbers up to 4-digits by a 2-digit whole number using the formal written method of <b>long division</b> , & interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
						<b>Divide</b> numbers up to 4-digits by a 2-digit number using the formal written method of <b>short division</b> where appropriate, interpreting remainders according to the context.

				Use place value, known & derived facts to multiply & divide mentally, including <b>multiplying by 0 and 1; dividing by 1</b> ; multiplying three numbers together.	<b>Multiply &amp; divide</b> whole numbers & those involving decimals <b>by 10, 100 and 1000</b> .	
					Recognise & use <b>square numbers &amp; cube numbers</b> , & the notation for squared <sup>2</sup> and cubed <sup>3</sup> .	
<b>Solve problems</b> , including doubling, halving & sharing. ELG	Solve <b>one-step problems</b> involving multiplication & division, calculating the answer using concrete objects, pictorial representations & arrays with the support of the teacher.	Solve <b>problems</b> involving multiplication & division, using materials, arrays, repeated addition, mental methods, & multiplication & division facts, incl problems in context.	<b>Solve problems</b> , incl missing number problems, involving multiplication & division, incl integer scaling problems & correspondence problems in which n objects are connected to m objects.	<b>Solve problems</b> involving multiplying and adding, including the distributive law to multiply 2-digit numbers by 1-digit, integer scaling problems & harder multiplication problems such as n objects are connected to m objects.	<b>Solve problems</b> involving addition, subtractions, multiplication & division & a combination of these, incl understanding the meaning of the equals sign.	Use knowledge of the order of operations to carry out calculations involving <b>four operations</b> .
					<b>Solve problems</b> involving multiplication & division, including scaling by simple fractions & problems involving simple rates.	<b>Solve problems</b> involving addition, subtraction, multiplication & division.
					<b>Solve problems</b> involving multiplication & division including using their knowledge of factors & multiples, squares and cubes.	