## **Multiplication and Division – National Curriculum 2014**

Foundation Stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot			identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	Use their knowledge of the or of operations to carry out calculations involving the four operations
		Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and	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 (facts for 6,7,9,11,12 are new)	know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	Identify common factors, common multiples and prime numbers
		even numbers		Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing	establish whether a number up to 100 is prime and recall prime numbers up to 19  recognise and use square numbers and cube numbers, and the notation	Perform mental calculations, including with mixed operation and large numbers
		Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they	by 1; multiplying together three numbers  Recognise and use factor pairs and commutativity in mental calculations	for squared ( ) and cubed ( ) multiply and divide numbers mentally drawing upon known facts multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal writte method of long multiplication divide numbers up to 4 digits l
		multiplication (×), division (+) and equals (=) signs	know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	a two-digit whole number usi the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for t context
They solve problems, including doubling, halving and sharing.	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.	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	divide numbers up to 4 digits a two-digit number using the formal written method of sho division where appropriate, interpreting remainders according to the context
					multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including	Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degrof accuracy.
					understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	Solve addition and subtraction multi-step problems in contex deciding which operations an methods to use and why
					problems involving simple rates.	Solve problems involving addition, subtraction, multiplication and division

