Progression Document: Multiplication and Division

Year 1	I answer maths multiplication or division problems with help from an adult and using objects to see what the problem means.						
Year 2	I use multiplication (×), division (÷) and equals (=) signs when writing out my times tables.	[**KEY**] I can solve multiplication and division problems using times table facts and objects or pictures to help me.		I know that the multiplication of two numbers can be done in any order, but that the division of numbers can only be done in one order.	[**KEY**] I know my 2 and 5 and 10 times tables by heart and can tell whether a number is odd or even.		
Year 3	[**KEY**] I know my 3, 4 and 8 times tables.		I can solve more complex problems and missing number questions involving multiplication and division.		[**KEY**] I can answer multiplication and division questions such as 16 x 5 or 45 divided by 9.		
Year 4	I know what the outcome is when I divide a number by 1.	I know what the outcome is when I multiply a number by 1 or by zero.	[**KEY**] I know all my times table up to the 12 times tables.	I can multiply three numbers together, such as 3 x 6 x 9.	I can multiply a two-digit or a three-digit number by a one-digit number using written methods.	I know what factor pairs are how I can multiply numbers in any order and use my knowledge to work out questions in my head.	
Year 5	I multiply and divide numbers mentally drawing upon my times table knowledge and other number facts.	I can divide 4 digit numbers by a one-digit number using the written method of short division and find the remainder.	I can multiply 4 digit numbers by a one- or two-digit number using a written method, including long multiplication for two-digit numbers.	I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	[**KEY**] I can solve multiplication and division problems using my knowledge of factors and multiples, squares and cubes.	I know what square numbers and cube numbers are, including the notation for squared (2) and cubed (3).	
Year 6	I can multiply numbers such as 1.45 by a one digit number - for example 1.45 x 7.	[**KEY**] I can multiply 4 digit numbers by a two-digit number (for example 4307 x 34) using the written method of long multiplication.	[**KEY**] I use written division methods in cases where the answer has up to two decimal places.	I can divide 4 digit numbers by a two-digit number using the written method of long division - and tell you the remainder.	[**KEY**] I can choose to divide 4 digit numbers by a two-digit number using the written method of short division if this is possible.	I can solve problems involving addition, subtraction, multiplication and division.	I can multiply and divide numbers by 10, 100 and 1000 and know what each digit means up to three decimal places.