PROGRESSION IN MULTIPLICATION AND DIVISION B YEAR 3

Strand	What do I already know?	What am I going to be learning?	What will I learn in Year 4?
Multiplication and Division Facts	count in multiples of twos, fives and tens – Y1 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward – Y2 recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers – Y2	count from 0 in multiples of 4, 8, 50 and 100 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	count in multiples of 6, 7, 9, 25 and 1 000 recall multiplication and division facts for multiplication tables up to 12 × 12
Written methods	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs (Y2)	write and calculate mathematical statements for multiplication and division using the multiplication tables that they 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
Mental calculation	show that multiplication of two numbers can be done in any order – Y2	write and calculate mathematical statements for multiplication and division using the multiplication tables that they know	use place value, known and derived facts to multiply and divide mentally
Inverse operations		estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation
Problem solving	solve one-step problems involving multiplication and division, by calculating the answer using objects, pictures and arrays with the support of the teacher (Y1) solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including word problems (Y2)	solve problems, including missing number problems, involving multiplication and division, including positive integer (whole number) scaling problems and correspondence problems	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
Vocabulary	Multiply, divide, product, multiple, quotient, commutative, inverse operation, integer, exchange, remainder		