3		Mult		
(P)	Calculate mathematical	Write and calculate		

Multiplication								
Written Methods		Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (+) and equals (=) signs	Write and calculate mathematical statements for + using the x tables they know progressing to formal written methods.	Multiply two-digit and three-digit numbers by 243 a one-digit number × 6 using formal written 2058 layout	Multiply numbers up to 4 digits by a one- or two-digit x 36 number using a formal 1458 written method, including 7290 long multiplication for two-digit numbers	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication 5172 × 38		
Developing conceptual understanding	2 frogs on each lify pad.	5 frogs on each fily pad 5 x 3 = 15 5 x 2 = 2 x 5 Build tables on counting stick	So 13 x 4 = 10 x 4 + 3 x 4 40 12 Build tables on counting stick	43 x 6 by partitioning X 40 3 6 240 18 4 3 x 6 40 x 6 = 240 3 x 6 = 18 4 0 x 6 = 258 If I know 4 x 6 = 24 the 40 x 60 is ten times bigger. 13 x 16 by partitioning 10 3	Grid method linked to formal written method x 200 40 3 30 6000 1200 90 = 7290 6 1200 240 18 = 1458 + 8748 If I know 4 x 6 then 0.4 x 6 is ten times smaller 0.4 x 0.6 is ten times smaller	41376 + 155160 196536 1 5172 × 38 41376 + 155160 196536		
	**************************************	Link to repeated addition	0 10 20	6 100 + 30 + 60 + 18 = 208 Build tables on counting stick		* 38 41376 + 155160 196536		
With jottings or in your head	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	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	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 methods	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Recognise and use factor pairs and commutativity in mental calculations	Multiply and divide numbers mentally drawing upon known facts Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers establish whether a number up to 100 is prime	Perform mental calculations, including with mixed operations and large numbers		
Just know it!	Count in multiples of twos, fives and tens	Recall and use x and + facts for the 2, 5 and 10 x tables, including recognising odd and even numbers.	Recall and use x and + facts for the 3, 4 and 8 times tables.	Recall x and + facts for x tables up to 12 x 12.	Recall prime numbers up to 19 know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Recognise and use square numbers and cube numbers, and the notation for squared (1) and cubed (2)			
Year	1	2	3	4	5	6		
	Count in 2s	2 x table	Review 2x, 5x and 10x	4x, 8x tables 10 times bigger	4x, 8x tables 100, 1000 times bigger	Multiplication facts up to 12 x 12		
Foundations	Count in 10s	10 x table	4x table	3x, 6x and 12x tables	3x, 6x and 12x tables 10, 100, 1000 times smaller	Partition to multiply mentally		
	Doubles up to 10	Doubles up to 20 and multiples of 5	Double two digit numbers	Double larger numbers and decimals	Double larger numbers and decimals	Double larger numbers and decimals		
	Count in 5s Double multiples of 10	5 x table Count in 3s	8 x table 3 x table	3x, 9x tables 11x, 7 x tables	3x, 9x tables 11x, 7 x tables	Multiplication facts up to 12 x 12 Partition to multiply mentally		
	Count in 2s, 5s and 10s	2 x, 5 x and 10 x tables	6 x table or review others	6x, 12 x tables	Partition to multiply mentally 6x, 12 x tables	Double larger numbers and decimals		
-			TARREST STREET, CONTROL	ON, ALIA DEDICE	The state of the s	- o o some neighbor manifers and decimals		