Key Stage 1 – Multiplication Y1	Y2					
Through practical activities and meaningful contexts using concrete objects,	Through practical activities and meaningful contexts using concrete objects,					
pictorial representations and arrays with the support of the teacher.	pictorial representations and arrays.					
Doubles.	 Double numbers (by partitioning and recombining) 17 + 17. 					
7 + 7 = 14						
• Make connections between arrays, number patterns and counting in 2's,	Understand multiplication as repeated addition/groups/lots.					
5's to 50 and 10's to 100.	Read arrays.					
Use of number lines.						
\sim	a 2x4 (2, 4 times)					
0 1 2 3 4 5 6 7 8 9 10 11 12 13						
"100 Square" to count in 2's E's and 10's	Repeated addition on a number line.					
• "100 Square" to count in 2's, 5's and 10's.	2 + 2 + 2 + 2 (4 groups of 2, 2 four times, 2 x 4)					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	2 + 2 + 2 + 2 + 2 (4 groups of 2, 2 four times, 2 x 4)					
from the sector of the free time to be the sector of the s						
• There are 2 sweets in one bag. How many sweets are there in 5 bags?	0 1 2 3 4 5 6 7 8 9 10					
	4 + 4 (2 groups of 4, 4 two times, 4x2)					
 Counting multiples of coins: 2p, 5p, 10p. 	0 1 2 3 4 5 6 7 8 9 10					
2p + 2p + 2p	 Know the multiplication tables for 2, 5 and 10. Calculate mathematical statements within the multiplication tables using the multiplication (x) and equals (=) signs. Show that the multiplication of two numbers can be done in any order (commutative). 					
	Video clips: <u>Teaching for understanding of multiplication facts</u> Practical multiplication and the commutative law					
National Curriculum requirements: Solve one step problems involving multiplication, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	National Curriculum requirements: Solve problems involving multiplication using materials, arrays, mental methods and multiplication facts.					

Solve one step problems involving multiplication, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Key Stage 2 – Multiplication

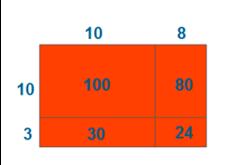
	Y3	Y4						
•	Recall and use multiplication tables for 3, 4 and 8. Continue to use arrays and number lines/Cuisenaire rods for 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication. Statements to include the multiplication tables that they know and 2 digit numbers x 1	 Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1). Continue using grid method and expanded method as appropriate, progressing to short multiplication. 						
•	digit numbers. Pupils use mental methods and progress to formal written methods. Introduce grid model.	X	100	30	6			327
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 500 150 30 X 4 1 3 0 8 • Short Multiplication. I 2						
		Nc	carrying	Extra	digit	Carrying	Zeros	Ext.
	Progressing to expanded method of multiplication. T O 1 4 $x \frac{5}{20}$ (5x4) $+ \frac{50}{70}$ (5x10)		T O 3 2 × <u>3</u> 96	HT 5 × <u>10</u>	1	HTO 38 $x_{\frac{7}{266}}$	HTO 202 × <u>4</u> <u>808</u>	$HTO 5 \square x 4 $
(F Na	ideo clips: <u>Teaching the grid method as an interim step</u> Partitioning and counters to introduce grid). Actional Curriculum requirements: Multiply 2 digits by 1 digit, using mental and progressing to formal written methods.	Mult		s by 1 dig	jit using	ments: g formal writter g formal writter		

Key Stage 2 – Multiplication

• Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1).

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- Continue to practise short multiplication.
- Use Grid Method to introduce long multiplication.





Video clips: <u>Moving from grid method to a compact method</u> <u>Reinforcing rapid times table recall</u> Demonstration of long multiplication

National Curriculum requirements:

Multiply numbers up to 4 digits by a 1 digit number using the formal written method of short multiplication.

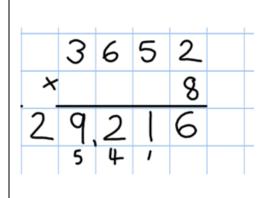
Multiply numbers up to 4 digits by a 2 digit number using the formal written method of long multiplication.

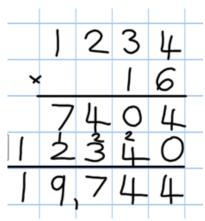
Multiple whole numbers and those involving decimals by 10, 100, 1000.

Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1).

Y6

- Continue to practise short multiplication.
- Continue to practise long multiplication.





- Multiply decimals using the grid method and progressing on to short multiplication.
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

Video clips:

Moving from grid method to a compact method Reinforcing rapid times table recall Demonstration of long multiplication

National Curriculum requirements: Multiply up to 4 digits by 2 digits using the formal written method of long multiplication. Multiply numbers by 10,100, 1000 giving answers up to 3 decimal places.