Topic: Multiplication

Year 3

Key Vocabulary:	Key learning: choose an efficient method	RAPID RECALL- TIMES TABLES Building on the 2, 5, and 10 times tables that you learned in Year 2, in
times tables	In Year 3 we encourage you to look closely at the numbers in the calculation	Year 3 you have to learn your 3, 4 and 8 times tables by heart
multiply by arrav	and make a decision about which method you will use:	3 x tables 4 x tables 8 x tables
, related facts	Always start at number 1 and only use a written method if you can't work it out mentally	1 x 3 = 3 1 x 4 = 4 1 x 8 = 8
lots of	1. Do I know the answer? (can I just say it	$2 \times 3 = 6$ $3 \times 3 = 9$ $3 \times 4 = 12$ $3 \times 8 = 16$ $3 \times 8 = 24$
groups of	automatically - rapid recall)2. Can I work it out in my head? (mental method)	$4 \times 3 = 12 \qquad 4 \times 4 = 16 \qquad 4 \times 8 = 32$
multiple	 Do I need to use a jotting? (mental method) Do I need a written method? (column method) 	5 x 3 = 15 5 x 4 = 20 5 x 8 = 40
factor		6 x 3 = 18 6 x 4 = 24 6 x 8 = 48
product	MENTAL METHOD Key learning: use related facts to multiply a 2-digit number (tons number) by a 1 digit number	7 x 3 = 21 7 x 4 = 28 7 x 8 = 56 8 x 3 = 24 8 x 4 = 32 8 x 8 = 64
	Example: 60 x 3	9 x 3 = 27 9 x 4 = 36 9 x 8 = 72
	18 180	10 x 3 = 30 10 x 4 = 40 10 x 8 = 80
	\wedge	$11 \times 3 = 33$ $11 \times 4 = 44$ $11 \times 8 = 88$ $12 \times 3 = 36$ $12 \times 4 = 48$ $12 \times 8 = 96$
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Remember, when learning your times tables practise using different language: <u>"four times eight"</u> "four lots of eight" "four eights" Also, multiplication is commutative (can be completed in any order) so learn your times tables in any order such as 9 X 3 and 3 X 9



WRITTEN METHOD

<u>Key learning:</u> Multiply a 2 - digit number by a 1-digit number using the grid method.

