Maths - Year 5

Calculating 12: Written methods for multiplying

	Key Vocabulary	Matl
Carrying/ regrouping	Transferring digits from one place value column to another to support calculating.	- Describe the method of mul
Short written method	Written method for recording multiplying calculations when multiplying by a number with one digit.	method of mul - Multiply to so
Long written method	Written method for recording multiplying calculations when multiplying by a number with two or more dig- its.	or measures.

Mathematical Methods

- Understanding the short written method of multiplying for TO x O and HTO x O e.g. 23 x 8

10	10	3		20	3			
			_				2	3
8 8 × 10 = 80	8 × 10 = 80	8 × 3	8	8 × 20 = 160	8 × 3	×		8
		= 24			- 24	1	8	4
			+ + + + + + + + + + + + + + + + + + + +				2	

- Multiplying in measuring contexts (HTO x O) e.g. 345 x 7m.

×	300	40	5	2100 + 280 + 35 - 2415	×		3	4	5 7	
7	2100	280	35	2100 + 200 + 35 = 2415		2	4 3	 3	5	

- Multiplying decimals using the short written method e.g. 22.6 x 4.

×	20	2	0.6	80 . 8 . 8 / . 00 /		2	2	· 6
4	80	8	2.4	80 + 8 + 2.4 = 40.4	×	0	0	4
						ר ו	2	4

- Multiplying 2-digit numbers (TO x TO) e.g. A farmer plants 32 rows of 54 carrot seeds. How many seeds altogether?



×	50	4	
30	1500	120	1500 + 120 + 100 + 8 = 1728
2	100	8	

0 0

- Introducing long multiplication e.g. 35 x 24

×	30	5		×	
20	600	100	600 + 120 + 100 + 20 - 840		I
20	000	100	000 + 120 + 100 + 20 = 840		7
4	120	20			8

Mathematical Skills

Describe the steps involved in the short nethod of multiplying. Describe the steps involved in the long nethod of multiplying.

- Multiply to solve problems in the context of measures.

