



## North Beckton Primary School – Calculation Policy - Multiplication

Multiplication	Method	Vocabulary	СРА	Additional
EYFS to 10	concrete objects, equal amounts	Double, equal amount, groups, altogether, same	I have 3 apples; can you double the number of apples? There are 6 apples in total.	notes Early doubling through play
Year 1 2,5,10 Recite only	Pictorial representations, arrays	Repeated addition, lots of, groups of repeated addition	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Year 2 2,5,10 representation	Concrete, arrays and repeated addition	Lots of, groups, same, times, multiply, multiplied by, multiple of, arrays, row, column, double,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	





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Year 3 3,4,8 and 6	Grid method 1 digit by 2 digits	Lots of, groups, same, times, multiply, multiplied by, multiple of, arrays, row, column, grid method			3	4 0 4 +	× 5	5 5 2 7		1	7	D				
Year 4 All	Grid method 1 digit by 3 digits	Lots of, groups, same, times, multiply, multiplied by, multiple of, arrays, row, column, grid method	3	3 0 4	4 007 +	7	× 5 2 7	5 5 0 0 3 3	= 1 0 0 5 5	7	3	5				
Year 5 and 6 1 or 2 digit by 4 digits	Grid method 4 digits by 1 digit 4 digit by 2 digits Short and long multiplication	lots of, groups, repeat, same size, times, multiply, jumps of, steps of, multiplied by, multiple of, array, row, column, double, repeated addition, product, grid method, short multiplication, long multiplication.	4 digit:	s by 1 2 3 0 0 - 0 3	4 X 0 5 0 1 0 4 + 6	5 = 5 0 0 0 0 1 0 2 1 -		7 (			digits 4 0 0 0 0 3 0 4	by     2       X     5       5     0       1     0       6     1	2 dig 1 = 0 0 ( 0 ( 5 ( 1 ( 1 (	iits         : 6 2 9 3 4         0 0 1 0 0         0 0 2 0         0 0 3         0 0 1 2 3	0 0 0 4 4 4	NB: Add both the numbers together to get the answer. In this example, 61700+1234=6 2934





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Short Multiplication $3562 \times 8 =$ 3562 $\times 8$ 28496 441 Long Multiplication $74 \times 29 =$ 74 $\times 29$ 666 $(9 \times 74)$ $\pm 1480$ $(20 \times 74)$ 2146	Numbers that are 'carried over'- need to be re-grouped and placed as a smaller number under the total of each row.
Decimal example : $7.4 \times 3 = 22.2$ $7.4 \times 3 = 22.2$ $7.4 \times 3 = 7.4 \times 3.2 = 24.68$ $7.4 \times 3.2$ $7.4 \times 3.2$ $7.4 \times 3.2$ $7.4 \times 3.2$ $7.4 \times 3.2$ $7.4 \times 3.2$ 1.4 § $2.22 \div 10 = 22.2$ $2.46$ § $\div 10$ and $\div 10$	Take the decimal out by x 10 or 100. Work out the whole number with grid method. Put the decimal back into the answer by dividing by 10 or 100.