

## **Multiplication**



Making equal groups of objects - How many altogether?			
• Repeated Addition - three groups of 2	times		
• Lots of 2's 5's 10's	groups of		
• Add another group	product		
	lots of		
• Drawing objects in groups – There are 3 sweets in one bag, how many sweets are there in 5	multiplied by		
bags?	sets of multiple of		
<ul> <li>Match numerals to groups of objects</li> </ul>	once		
	twice		
Record numbers, possibly in a horizontal sentence along with drawings	repeated-		
• Use x sign to indicate groups of	addition		
	row		
• Draw arrays (arrangements of dots/marks)	column		
Write related horizontal calculations.			
* * * 3x 2 = 6			
* * *			
$2 \times 3 = 6$			
<ul> <li>Complete missing number sums _ x 2 = 14, 7 x _ = 14, 14 = _ x 7</li> </ul>			
• Regular times table practise begins – Y2 x 2, 5, 10 - Y3 x 2, 3, 4, 5, 6, 10 - Y4 x and – 10			
x 10			
• Doubling and multiples of 5 to 50			
<ul> <li>Make the connection with the inverse and matching division facts</li> </ul>			



The grid method can then be u	sed for a	2-digit by 2-digit multiplication.	
The grid method can then be u 66 × 34 This is extended to larger numb 2035 × 17 <u>Pencil and paper procedures</u>	sed for 2 	2-digit by 2-digit multiplication. $\frac{x  60  6}{30  1800  180} \\                                    $	Regular number times table practice and recal Make
Extended form <b>2 4 6</b>			ll (wit estim
x <u>7</u>			h as lates
1 4 0 0 (200 x 7)			soci
2 8 0 (40 x 7)			ate.
4 2 (6 x 7)			d fo
1722			atio
Non-extended form			Su Su
Leading to long multiplication			
3 5 2			
<u>x 27</u>			
2464			
7 0 4 0			
9504			
• Extend to decimals with up	to two	decimal places	
4.62 x <u>1</u> 3 13.86			

Please note:

- Use of any method is appropriate depending on the type and context of calculation.
- In problem solving situations practise choosing the most appropriate method for a variety of calculations.
- Apply methods learnt and use confidently in a range of situations
- Ongoing consolidation of times tables and related division facts
- Instant recall of 2, 5, 10, 3, 4, 6, 7, 8, 9 times tables (usually in that order)



