Yr	Multiplication	Enactive (Concrete)	Iconic (Pictorial)	Symbolic		
	Strategies					
R Yr1	Doubling	Use practical activities to show how to double a number.	Draw pictures to show how to double a number. Double 4 is 8	$ \begin{array}{c} 16 \\ 10 \\ 1 \\ x^2 \\ 20 \\ 12 \end{array} $		
		double 4 is 8 $4 \times 2 = 8$		Partition a number and then double each part before recombining it back together.		
Yr 1/2	Counting in Multiples		Sus sus sus sus sus	Count in multiples of a number aloud. Write sequences with multiples		
			0 5 10 15 20 25 30	of numbers. 2, 4, 6, 8, 10		
			in multiples.	5, 10, 15, 20, 25, 30		
		Count in multiples supported by concrete objects in equal groups.				



Yr 2/3 4	Arrays – showing commutative multiplication	Create arrays using counters/ cubes to show multiplication sentences.	Draw arrays in different rotations to find <b>commutative</b> multiplication sentences.	Use an array to write multiplication sentences and reinforce repeated addition. 000000000000000000000000000000000000
4	Grid Method	Show link with arrays to first introduce the grid method.	Children can represent the work they have done with place value counters in a way that they understand. They can draw the counters, using colours to show different amounts or just use circles in the different columns to show their thinking as shown below.	Start with multiplying by one digit numbers and showing the clear addition alongside the grid. $\begin{array}{r} \hline \hline$

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			Move on to place value counters to show how we are finding groups of a numbers. We are multiplying by 4 so we need 4 rows.	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	10 3 ×	1000	10 100 30 300	40	8 80 24 2	
			Fill each row with 126.	+ 12	10	10000	3000	400	20	
			Calculations	12	8	8000	2400	320	16	
			Add up each column, starting with the ones making any exchanges needed.	Use the bar model 12 12 12 12 12 12 12 $6 \times 12 = 72$ $72 \div 6 = 12$ $72 \div 12 = 6$						
	Yr 4 5 6	Column multiplication	Children can continue to be supported by place value counters at the stage of multiplication.	Bar modelling and number lines can support learners when solving problems with multiplication alongside the formal written methods.	Start remir up the colum If it he what their	with lo iding c eir num nns. elps, c they a answe T ( 3	ong m childre mbers hildre are so er. D 2	ultipli en abc clear n can ving r	cation, out lining ly in write ou next to	; .t

