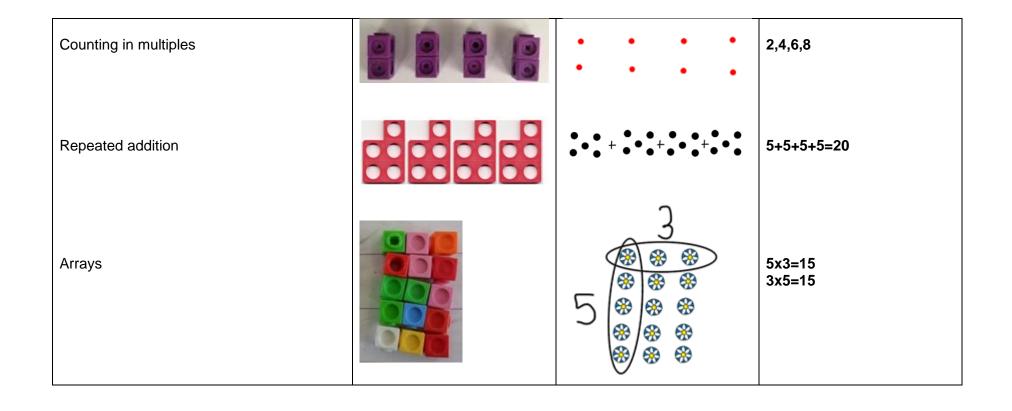
Multiplication

	Recep	otion	
Early Learning Goals Solve problems involving doubling.			
Strategy			
 	Concrete	Pictorial	Abstract
Count objects of the same number and add together			Double 2 is 4 2 + 2 = 4

	Year 1					
National Curriculum Objectives Solve one step problems involving multiplicat with the support of the teacher.	ion, by calculating the answer ι	using concrete objects, pictorial	representations and arrays			
Strategy Examples/representations						
	Concrete	Pictorial	Abstract			
Doubling			Double 8 is 16 8+8 =16			



Year 2

Strategy	Examples/representati	ons	
	Concrete	Pictorial	Abstract
Repeated addition	$\frac{1}{2} \frac{2}{2} \frac{3}{2} \frac{4}{2} \frac{0}{2} \frac{6}{2} \frac{7}{2} \frac{9}{2} \frac{9}{2} \frac{0}{2} \frac{1}{2} \frac{1}$	· · · · · + · · · · · · + · · · · · · ·	5+5+5+5 = 20
rrays			5 x 4 = 20

	Year 3						
National Curriculum Objectives							
Multiply 2 digits by 1 digit, using mental and p	progressing to formal written me	thods, for the multiplication tab	es that they know.				
Strategy	Examples/representations						
	Concrete	Pictorial	Abstract				
Short multiplication - formal written method (base ten and place value counters)			34 × 5 = 170				
			н т о				
			3 4				
	Hundreds Tens Dnes		× 5				
	000 0000		2 0 (5 × 4)				
			+ 1 5 0 (5 × 30)				
			1 7 0				
			н т о				
			3 4				
			× 5				
			1 7 0				
			1 2				

	Year 4						
National Curriculum Objectives Multiply 2 digits by 1 digit using formal writter Multiply 3 digits by 1 digit using formal writter	n layout.						
Strategy	Examples/representations						
	Concrete	Pictorial	Abs	stract			
Short multiplication - formal written method		Bar model for multiplication $6 \times 156: 536$ $154: 56: 56 : 156 :$		н	т	0	
					3	4	
		936		×		5	
		666			2	0 (5 × 4)
		Taking II		+ 1	5	0 (5	i × 30)
			' L	1	7	0	
						_	
			[н	T	0	
					3	4	
				×		5	
				1	7	0	
				1	2		-

	Year 5			
National Curriculum Objectives Multiply numbers up to 4 digits by a 1 digit number using a formal written method. Multiply numbers up to 4 digits by a 2 digit number using the formal written method of long multiplication.				
Strategy	Examples/representations			
	Concrete	Pictorial	Abstract	
			Th H T O	
Short multiplication - formal written method - 4 digit by 1 digit			1 8 2 6	
			× 3	
			5 4 7 8	
			2 1	
		× 20 2	Н Т О	
_ong Multiplication - formal written method -		× 20 2	2 2	
2 digit by 2 digit		30 600 60	× 3 1	
		1 20 2	2 2	
			6 6 0	
			6 8 2	
			TTh Th H T O	
Long Multiplication - formal written method -			2 7 3 9	
2 digit by 2 digit			x 2 8	
			2 1 9 1 2	
			5 4 7 8 0	
			7 6 6 9 2	

Year 6 National Curriculum Objectives Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Strategy Column multiplication Examples/representations Concrete Pictorial Abstract 1 2 3 4 1 6 7 4 0 4 1 6 1 9,7 4 4 1 9,7 4 4