



EYFS Framework	 ELG Numerical Patterns: Children at the expected level of development will: Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.
National	Pupils should be taught to:
Year 1	 solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
	Pupils should be taught to:
National	 recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Curriculum Year 2	 calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs
	 show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods, and
	multiplication and division facts , including problems in context.

Key Language: share, group, divide, divided by, half, repeated subtraction		
Key Apparatus: Numicon, interlocking cubes, objects, coins, number tracks, number lines		

	Concrete	Pictorial	Abstract
	(Most applicable to EYFS / Y1)		
Step 1- Sharing objects into groups "Share 6 leaves between 2 dinosaurs"	We encourage the use of objects from the natural world and common everyday objects as well as school resources.	Children draw pictures and/ or use symbols to represent objects.	Children use their concrete and pictorial representations to help them transfer their thinking into the abstract
"Share 12 coins between 3 purses."			12 (12) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Step 2- Division as grouping "Put 9 shells into groups of 3."			9 3 3 3
into groups of 2"			2 2 2 2 2 2 2 0 1 2 3 4 5 6 7 8 9 10

	Concrete	Pictorial	Abstract	
	(Most applicable to Y1/Y2)			
Step 3- Repeated subtraction $6 \div 2 = 3$ "6 take away 2, take away 2, take away 2"	1234567		-2 -2 -2 0 1 2 3 4 5 6 3 groups	
		(Most applicable to Y2)	1	
Step 4- Division with arrays- linking to multiplication	Image: shared between 4 "	"4 lots of 2" 0 0 0 0 0 0 0 0 0 0 0 0 "8 shared between 4" © © © © 0 0 0 0 0 0 0 0	$3 \times 4 = 12$ $4 \times 3 = 12$ $12 \div 3 = 4$ $12 \div 4 = 3$	

	Concrete	Pictorial	Abstract
Step 5- Recall division facts- linking to multiplication (2, 5 and 10)	© © © © S S S S S S S S S S S S S S S S	0 0 0 0 0 0 0 0 0 0 0 5 lots of 3 is 15 15 into groups of 3 is 5 15 into groups of 5 is 3	Mental Recall "If I know I also know" 3 x 5 = 15 5 x 3 = 15 15 ÷ 3 = 5 15 ÷ 5 = 3