Year One	Year Two	Year Three
Children must have secure counting skills- being able to	<u>÷ = signs and missing numbers</u>	<u>÷ = signs and missing numbers</u>
confidently count in 2s, 5s and 10s.	$6 \div 2 = \Box$ $\Box = 6 \div 2$	Continue using a range of equations as in year 2 but
Children should be given opportunities to reason about	$6 \div \Box = 3$ $3 = 6 \div \Box$	with appropriate numbers.
what they notice in number patterns.	$\Box \div 2 = 3 \qquad \qquad 3 = \Box \div 2$	Grouping
Group AND share small quantities- understanding the	$\Box \div \nabla = 3 \qquad \qquad 3 = \Box \div \nabla$	How many 6's are in 30?
difference between the two concepts.	Know and understand sharing and grouping-	30 ÷ 6 can be modelled as:
Sharing	introducing children to the ÷ sign.	
Develops importance of one-to-one correspondence.	Children should continue to use grouping and sharing	0 6 12 18 24 30
15 + 5 = 3 15 shared between 5	for division using practical apparatus, arrays and	Becoming more efficient using a numberline
0000000000000	pictorial representations.	Children need to be able to partition the dividend in
	Grouping using a numberline	different ways.
	Group from zero in jumps of the divisor to find our	48 ÷ 4 = 12
	'how many groups of 3 are there in 15?'.	+40 +8
Children should be taught to share using concrete	15 ÷ 3 = 5	10 Banks 5 Radia
apparatus.		
Grouping		Remainders
Children should apply their counting skills to develop		49 ÷ 4 = 12 r1
some understanding of grouping.		
6.2.12	0 3 6 9 12 IS	10 groups 2 groups
How many 3s 3 W215 15+3=5		Sharing – 49 shared between 4. How many left over?
in 15?	201010101010101010101010101010101010101	Grouping – How many 4s make 49. How many are left
Use of arrays as a pictorial representation for division.		over?
$15 \div 3 = 5$ There are 5 groups of 3.	0 3 6 9 12 15	Place value counters can be used to support children
$15 \div 5 = 3$ There are 3 groups of 5.	Continue work on arrays Support children to	apply their knowledge of grouping.
	understand how multiplication and division are inverse	For example:
	Look at an array – what do you see?	60 ÷ 10 = How many groups of 10 in 60?
	what do you see?	600 ÷ 100 = How many groups of 100 in 600?
Children should be able to find ½ and ¼ and simple		
fractions of objects, numbers and quantities.		
	$12 \div 4 = 3$	

Year Four	Year Five	Year Six
÷ = signs and missing numbers		÷ = signs and missing numbers
Continue using a range of equations as in year 3 but with appropriate numbers.		Continue using a range of equations but with
Sharing, Grouping and using a number line		appropriate numbers
Children will continue to explore division as sharing and grouping, and to represent calculations on a number line		Sharing and Grouping and using a number line
until they have a secure understanding. Children should progress in their use of written division calculations:		Children will continue to explore division as sharing and
Using tables facts with which they are fluent		grouping, and to represent calculations on a number
 Experiencing a logical progression in the numbers they use, for example: 		line as appropriate.
1. Dividend just over 10x the divisor, e.g. 84 ÷ 7		Quotients should be expressed as decimals and
2. Dividend just over 10x the divisor when the divisor is a teen number, e.g. 173 ÷ 15		fractions
3. Dividend over 100x the divisor, e.g. 840 ÷ 7		Formal Written Methods – long and short division
4. Dividend over 20x the divisor, e.g. 168 ÷ 7		E.g. 1504 ÷ 8
Children begin by writing a partial table including doubling, ten lots and 5 lots.		122
876 ÷ 2	3 = 38 r 2	100
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{x23}{30}$ 1 \rightarrow 23	8 150 4
$\begin{pmatrix} 1 & 3 & 0 & 5+30 & 115 \\ 3 & r^3 & 10+60 & 805 \end{pmatrix}$	$5 \qquad 2 \rightarrow 46 \qquad 5 \rightarrow 115$	F.g. 2364 ÷ 15
93 46	$\begin{array}{cccc} 2 & 10 \rightarrow 230 \\ 20 \rightarrow 460 \end{array}$	19.2001120
	1 30→690	1 5 1-1 -3 10 10 -0
× 2	r2	131230TT
r ³ ₉₃ 876		
All of the above stages should include calculations with remainders as well as without.		80
Formal Written Methods	Formal Written Methods	75.
Formal short division should only be introduced once	Continued as shown in Year 4, leading to the efficient	1 -1 -1+
children have a good understanding of division, its links	use of a formal method. The language of grouping to be	105
with multiplication and the idea of 'chunking up' to find	used (see link from fig. 1 in Year 4) E.g. 1435 ÷ 6	100
a target number (see use of number lines above)	729.	90
Short division to be modelled for understanding using	20111	
place value counters as shown below. Calculations with	1-11,2235	90
2 and 3-digit dividends. E.g. fig 1	01422	
H T U		0
5 1 2 6	Children begin to practically develop their	
	understanding of how to express the remainder as a	
	decimal or a fraction. Ensure practical understanding	
	allows children to work through this	