



## **Calculation policy**

## Addition

The different stages	Examples
EYFS/ Year 1 Counting sets of objects. Secure up to 20.	Counting 9 toy dinosaurs or 12 bricks etc.
Year 1 Combining two sets of objects into one group and counting practically using numbers up to 20.	For 15 + 3 children may get 15 objects then 3 more and count them altogether.
Year 1/2 Drawing dots-informal jottings then count them altogether. Working towards numbers up to 100.	For 25 + 9 children to draw 25 dots and then 9 more.
Year 2 Counting on a number line with numbers on it using numbers up to 100.	54 + 7 +1 +1 +1 +1 +1 +1 +1 54 55 56 57 58 59 60 61

Year 2/3	34 +23 =57
Number line can continue to	
be used, bouncing forwards in	+10 +10 +1 +1 +1
increasingly larger amounts.	34 44 54 55 56 57
Year 3/4	
Write the numbers in	346
columns.	540
Add the units first. Working	+ <u>251</u>
with numbers up to 1000.	597
Year 4 upwards	
Column addition.	546
Write the numbers in	
columns.	+ <u>375</u>
Powers of ten are carried into	921
the next column.	11
Year 5 upwards	
Column addition.	£ 234.6
Write the numbers in	+ £ <u>457.5</u>
columns.	£ <u>692.1</u>
Powers of ten are carried into	111
the next column.	
Numbers get increasingly	
larger and include decimals.	
E.g. money.	

## Subtraction

The different stages EYFS/Year 1 Practically get a group of objects and take some away	Examples 8 cars take 3 cars away. How many left?
Year 1 Jottings-draw a set of marks and then cross some out Secure with numbers to 20.	12 - 5 = 7 ★★★★★ ● ● ● ● ● ●
Year 1/2 Count back on a number line with numbers already on it. Working with numbers to 100.	54 - 6 = 48 $-1  -1  -1  -1  -1$ $-1  -1  -1  -1$ $48  49  50  51  52  53  54$



Multiplication

Times table expectations.

By the end of Year 2, children should be able to recall and use multiplication facts for the 2, 5 and 10 times tables.

By the end of Year 4, children should be able to able to recall and use multiplication facts for all times tables up to 12 x 12.

The different stages	Examples
EYFS/Year 1	2 cars, 2 cars and 2 more cars.
Counting practically	
in repeated	
groups/patterns.	
Year 1/2	4 x 2 = 8
Grouping	<b></b>
Year 2	4 x 2 = 8 or 2 x 4 = 8
Arrays	
Year 2/3	5 x 3 is 5 + 5 + 5 = 15
Repeated addition	or 3 lots of 5
Repeated addition can be shown easily on a number line.	5 5 5 5
Year 3 Partitioning	14 x 6 = 84

	10 x 6 = 60 4 x 6 = 24 60 + 24 = 84
Year 3/4 Short multiplication. Write the numbers in columns. Multiples of powers of ten are carried underneath the next column.	37 X <u>8</u> <u>296</u> 5
Year 5 upwards Long multiplication. Write the numbers in columns. Multiples of powers of ten are carried into the next column.	$ \begin{array}{c} 124\\ X \\ 26\\ 744\\ 12\\ \underline{2480}\\ \underline{3224}\\ 11 \end{array} $

## Division

**Expectations.** 

By the end of Year 2, children should derive and recall division facts associated with 2, 5 and 10 times table.

By the end of Year 4, children should be able to derive and recall division facts for all times tables up to 12 x 12.

The different stages	Examples
EYFS/Year 1	8 ÷ 2 = 4
Children will develop	Sharing equally.
their understanding	8 sweets are shared between 2 people.
of division and use	How many do they get each?
jottings to support	
calculation.	
Year 1	There are 8 sweets. How many people can
Grouping	have 2 sweets each? Answer: 4.
	••/••/••
Year 2/3	How many groups of 2 can I fit into 8?
Arrays	Answer: 4

Division with small remainders using objects and pictures.	
Year 3/4	98 ÷ 7 = 14
Short division	
The divisor (7 in this example) is put into the dividend (98) moving left to right (highest to lowest place.)	1 4 7 9 8
Year 5 upwards	432 ÷ 15 = 28 r 12 or 28.8
Long division	2 8·8
Multiples of the	1 5 4 3 2 0 15
divisor (15 in this	
example) are	$3 \cup 45$
suptracted from the	1 3 2 55 75
Romainders can be	1 2 0 🔶 90
shown as a pure	
number (12 this	<b>1 2 0</b> <sup>135</sup>
example) or can be	0
calculated further to	
find a decimal	
remainder.	