

Hígh Hesket CE Prímary School Wrítten maths calculatíons overvíew

	Foundation	Year 1	Year 2	Year 3	Year 4	Year 5 Year 6
Addition	Combining and	Using Base 10 to add	Using base 10 to	Expanded column	Compact column	Compact column addition to
	counting different	TU and U.	combine tens and units,	addition.	addition.	include decimals and multiple
+	objects.		including exchanging.	100→10→7		numbers.
			56	100→40→6	5347	
Put together			<u>+ 23</u>	200→50→13	+2286	12.36 21.72
Add Altogether	◎ ◎ ◎	13 + 5 = 18	79		+1495	<u>+23.68</u> 4.634
More than				24	9128	<u>36.04</u> 140.001
Total	3+4 = 7		'	<u>+17</u>	1 21	1 1
Sum			Expanded column	11		
Increase			addition (i.e.	<u>30</u>		
Plus			partitioning numbers to	41		
And			add)			
			60 → 7	Using Base 10 to		
			<u>20 → 4</u>	support compact		
			80 →11 = 91	column addition.		
				58		
Subtra-	Using real life	Using Base 10 or	Using Base 10 to	Using Base 10 to	Using Base 10 to	Compact method of
	objects to take	number lines to	subtract with some	support expanded	support expanded	decomposition.
ction	away and count	count how many left	exchanging.	vertical method.	vertical method	
-	how many left.			80→9	including	4 15 1
Take away				- <u>50→7</u>	exchanging.	56.29
Subtract	>		Number lines	30→2 = 32		<u>-37.55</u>
Minus					Compact column	18.74
Difference	7-2 = 5	18 – 5 = 13	27-12 = 15		subtraction.	7 14 1
between				Number lines.	7 1	850.146
Distance					2 \$ 3	- <u>372.033</u>
between Less than			15 25 26 27	112 – 36	- 57	478.113
Reduce				+4 +60 +12	2 2 6	
Fewer				$ \wedge / \rangle$		
Decrease				36 40 100 112		
Decrease				36 40 100 112		



High Hesket CE Primary School Written maths calculations overview

Multipli-	Making and	Making and drawing	Using repeated	Using arrays to support	Grid multiplication.	Extended grid method.
-	drawing groups of	groups of real life	addition.	grid multiplication.	X 100 50 2	x 20 7
cation	real life objects.	objects with	©©© ©©© ©©©		3 300 150 6	40 800 280
x		matching number	3 + 3 + 3 = 9	X 10 4		6 120 42
Double Groups of Lots of Multiply Product Multiple Times Square		sentences. ©© ©© ©© © © 3 x 3 = 9	Making and describing arrays. ©©©©©© ©©©©©© 3 x 5 = 15 5 x 3 = 15 5+5+5=15 3+3+3+3+3 = 15	6 60 24 Number lines	Expanded vertical method. 152 X 3 6 150 300 456 Compact method	Compact vertical method (xU and x TU) 234 x 15 1170 2340 3510
	Charing authoral	Charing automal	Number lines 4 x 7 = 28 0 4 8 12 16 20 24 28	Making links to time a	(xU)	Charaking with larger wards are
Division ÷	Sharing out real objects in to groups.	Sharing out real objects in to groups including the	Repeated subtraction including remainders.	Making links to times tables facts.	Chunking method. 4 48 - 40 (10 x)	Chunking with larger numbers.
Halve Divide Share Groups of Lots of Factor	©© ©© ©© ©©	concept of remainders as ones 'left over'. 9 ÷ 2 = ©© ©© ©© ©©	$9 \div 3 = 3$ Using number lines to count in groups. $28 \div 4 = 7$ $0 4 8 12 16 20 24 28$	Using number lines to count in larger groups. 10 groups 2 groups 0 40 48	8 (2x) - 8 0	-300 (x 20) 132 -120 (x8) 12 Compact division method to be used when appropriate. 0 8 8 r4 9 7 ⁷ 9 ⁷ 6

N.B. Please note that children should be moved on to the next stage in the calculations whenever ready. Children who are secure in a particular calculation method should be taught the next stage regardless of year group. Similarly, children who are struggling at a particular stage may need to revisit the stage before to help secure the earlier method first. The methods above are not exhaustive and other methods may be used if and when appropriate.