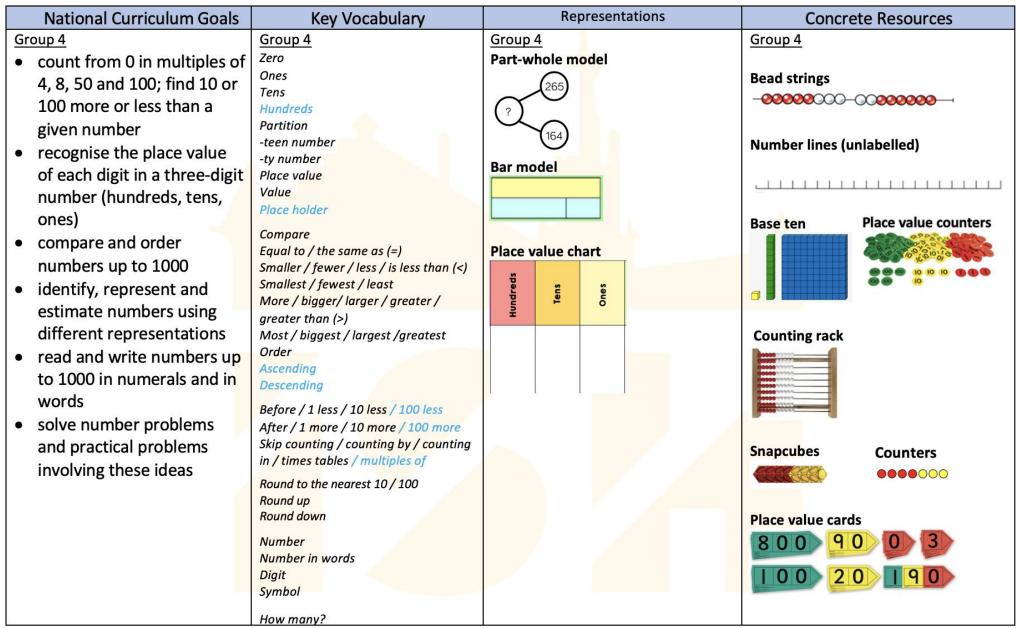
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Maths in Group 4 at International School Haarlem

At International School Haarlem we aim to provide children with consistent and secure mathematical language, representations, and methods as they move up through the groups. These progress alongside their mathematical understanding and in combination with a range of concrete resources.

This document shows the National Curriculum goals alongside the mathematical language (new vocabulary in blue), representations, and methods the children are expected to have covered by <u>the end</u> of Group 4. In addition, it shows the concrete materials the children will use to support their learning and comprehension.

Place Value



Addition & Subtraction

National Curriculum Goals	Key Vocabulary	Calculation Methods / Representations	Concrete Resources
Group 4	Group 4	Group 4	Group 4
 add and subtract numbers 	Add / Total / Plus / Together /	Part-whol <mark>e m</mark> odel	
mentally, including:	Altogether / Addition / Sum /		Bead strings
 a three-digit number and 	More		-000000-0000000
ones	- · · · · ·		
 a three-digit number and 	Take away / Minus / Less /	- (164)	Number lines (unlabelled)
tens	Subtract / Fewer / Differenc <mark>e</mark> / Left	Bara madel	
 a three-digit number and 	over	Bar mod <mark>el</mark>	+2 +21
hundreds		?	38 40 61
add and subtract numbers with	ls / Equal / Is equal to	265 164 265	58 40 61
up to three digits, using formal	# more / counting on / how many	164	Base ten Counting rack
written methods of columnar	more?	Number line	Base ten Counting rack
addition and subtraction	# less / counting back / how many	+ 2 + 21	
estimate the answer to a	less?		00000 11000 00000 11000
calculation and use inverse	1853?	38 40 61	
operations to check answers	Number sentence / Number	Hundred <u>square</u>	
solve problems, including	problem / Equation		Cubes
missing number problems, usin <mark>g</mark>	p ,	1 12 13 14 15 16 17 18 19 20 12 13 14 15 16 17 18 19 20 12 13 14 15 16 17 18 19 20	Counters
number facts, place value, and	Digit	a: b: b:<	
more complex addition and	-	11 42 43 46 40 49 90 51 62 53 56 57 58 59 60 61 62 63 64 65 67 68 90 60	
subtraction.	Fact fa <mark>mi</mark> ly	71 72 73 74 75 76 77 78 79 80	Place value counters
	Number bond	01 02 03 64 65 66 87 88 69 90 91 92 93 94 95 96 97 98 99 100	
	Number facts		
	Next multiple of ten	Column method	
	Previous multiple of ten	Hundreds Tens Ones Hundreds Tens Ones	
		+ 164 000	
	Missing number		
	Inverse	• • • •	
	Crossing 10 / exchange / crossing		
	100		
	100		

Multiplication & Division

National Curriculum Goals	Key Vocabulary	Calculation Methods / Representations	Concrete Resources
Group 4	Group 4	Group 4	Group 4
• recall and use multiplication		Bar model	Numicon
and division facts for the 3,	Doubling	?	
4 and 8 multiplication tables	Halving		
 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using 	Repeated addition Multiplication Multiply Multiplied by / times / groups of Multiple Array(s) – Row and Column Division Division	Number line (unlabelled) 0 4 8 12 16 20 24 28 32 36 40 44 48 Hundred square 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 26 25 26 27 28 39 40 31 32 33 34 35 56 37 38 39 40 41 42 43 44 45 46 47 49 50	Counters
mental and progressing to	Grouping / equal groups of Sharing / share equally	Groups	Counting rack
 formal written methods solve problems, including missing number problems, involving multiplication and 	Number sentence / Number problem / Equation	Arrays	
division, including positive		5+5+5+5=20	
integer scaling problems	Fact family	$4 \times 5 = 20$	Base ten
and correspondence	Multiplication fact	5 x 4 = 20	
problems in which n objects	Division fact		
are connected to m object <mark>s.</mark>	mverse	Expanded column method	
	Number pattern	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

Fractions

