

Shenstone Lodge School

Calculations Policy

Author	Written/Reviewed	Approved by Governors	Next Review
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This guidance has been developed from the White Rose Calculation Policy: working document, which was written as a guide to indicate the progression through Addition, Subtraction, Multiplication and Division in Years 1 – 6.

EYFS

In EYFS, our aim is to provide the children with opportunities to explore and improve their skills in counting numbers, calculating simple addition and subtraction problems, and to describe shapes, spaces, and measures. We believe children should be exposed to different representations of mathematical concepts in order to embed conceptual understanding. One of the aims under the Characteristics of Effective Learning is 'creating and thinking critically.' Children are encouraged to make links, find new ways to do things, solve problems, change strategies as needed, make predictions and develop ideas of grouping, sequencing, cause and effect.

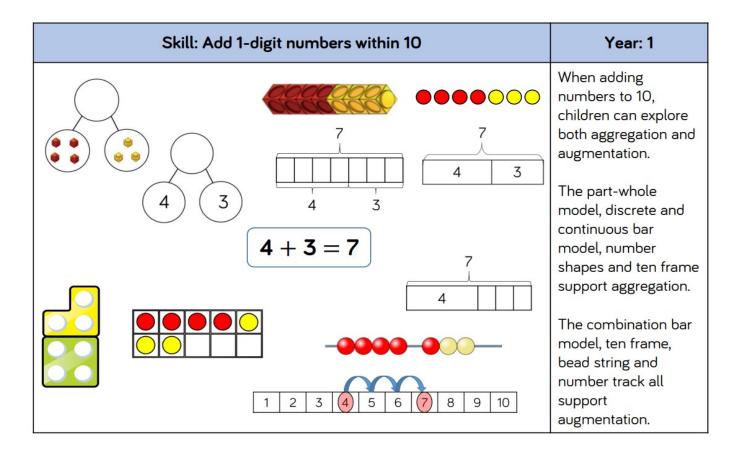
Early Learning Goal for Numbers:

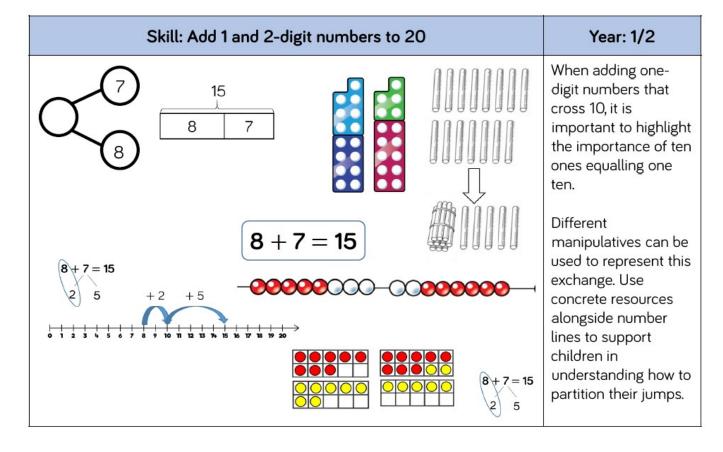
- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

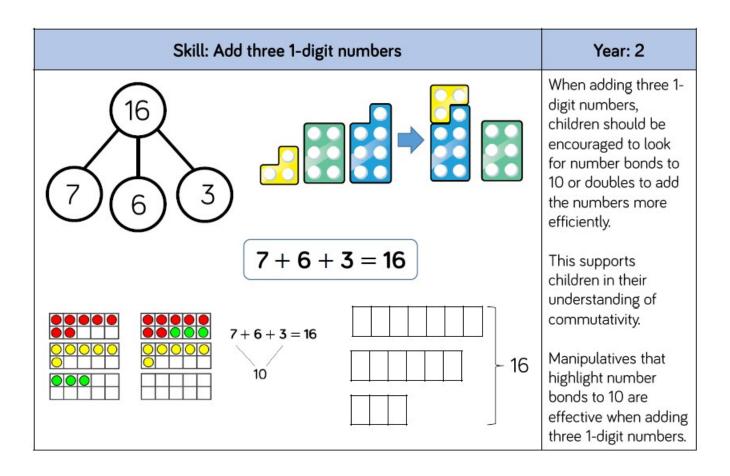
Early Learning Goal for Numerical Patterns:

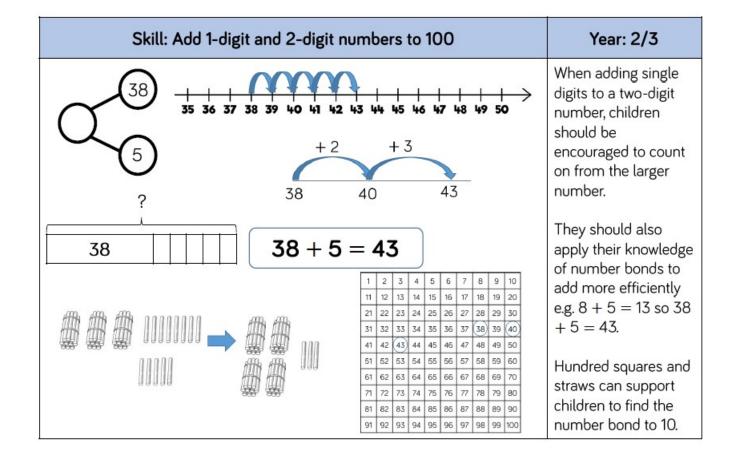
- Verbally count beyond 20, recognising the pattern of the counting system.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

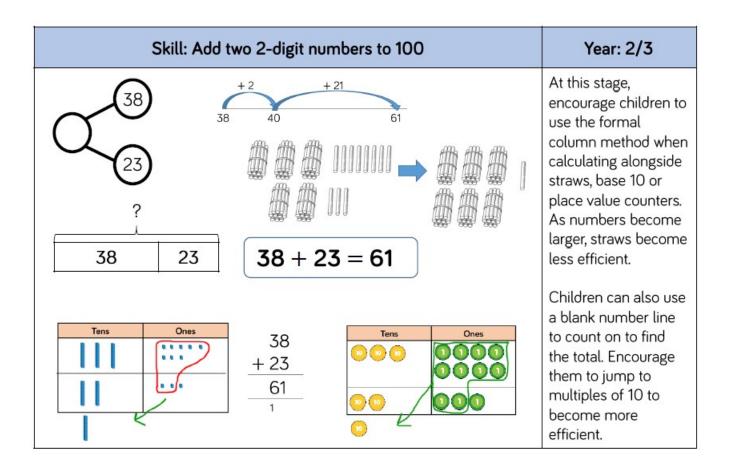
Addition

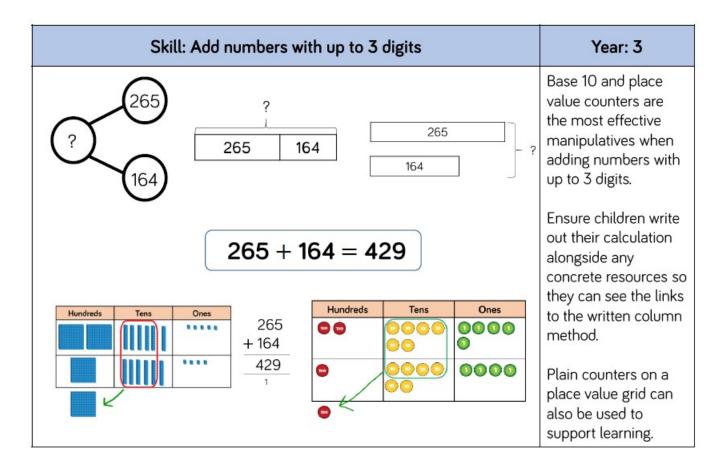


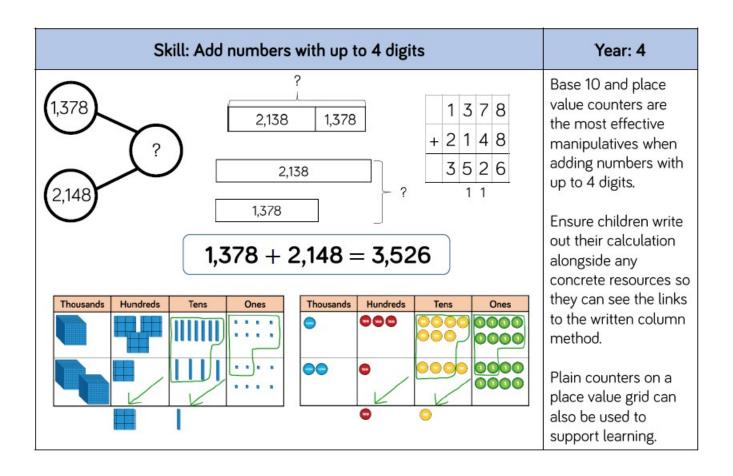


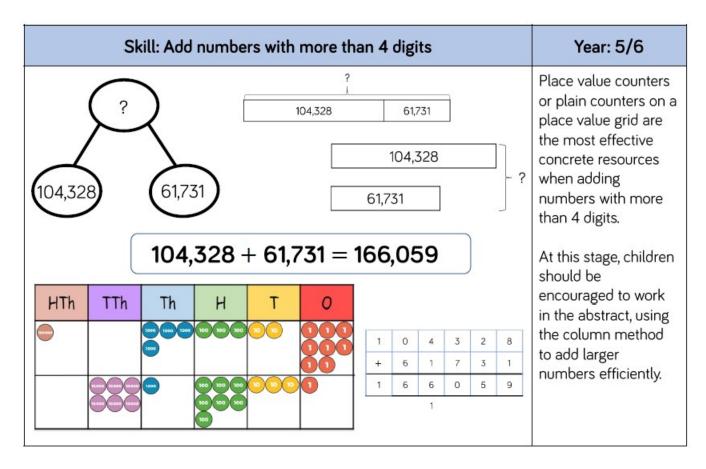


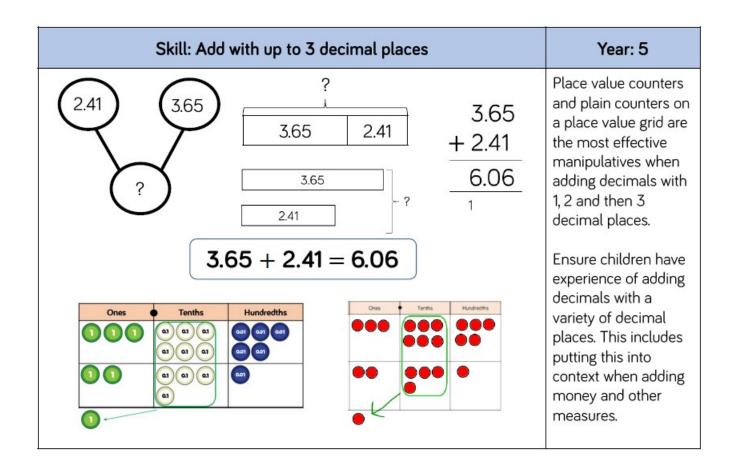




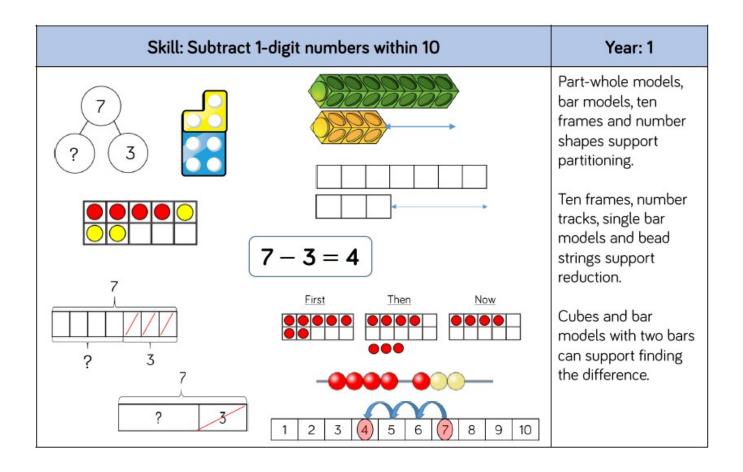


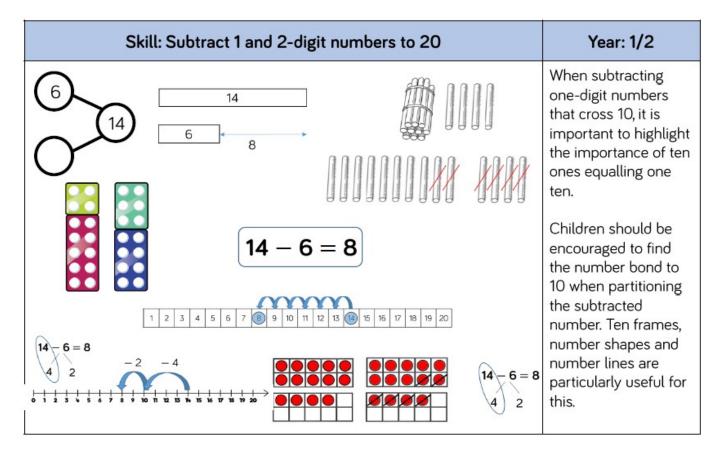


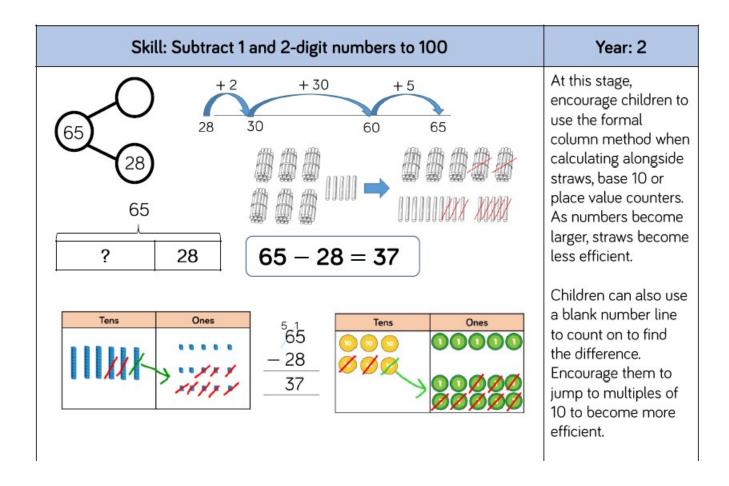


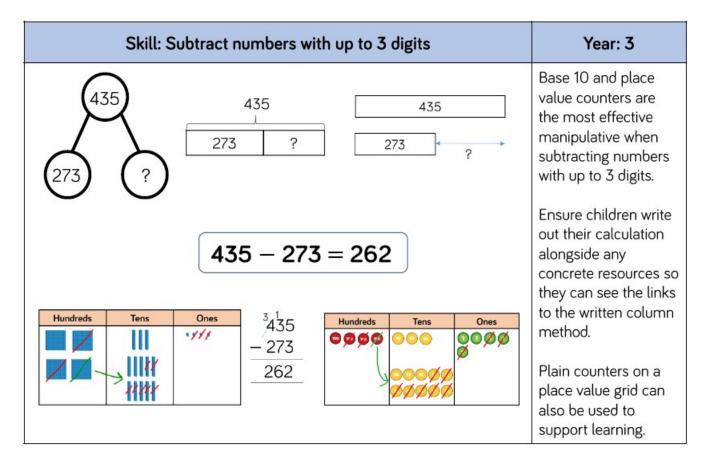


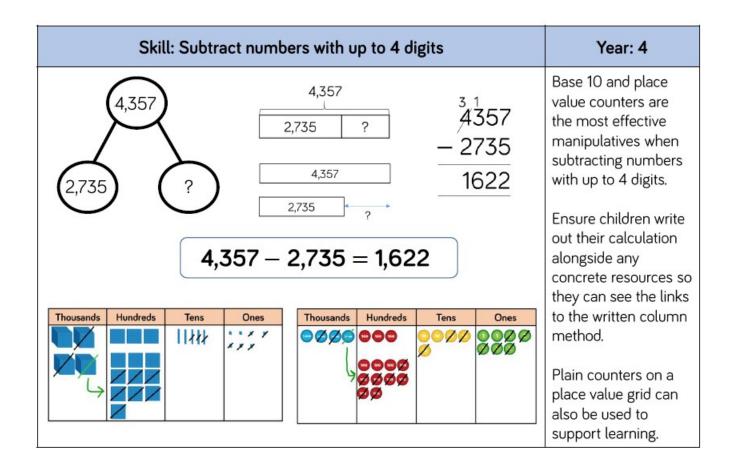
Subtraction

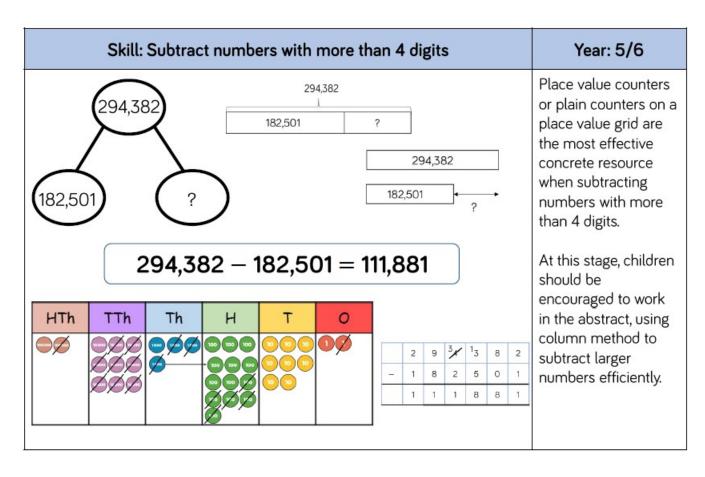


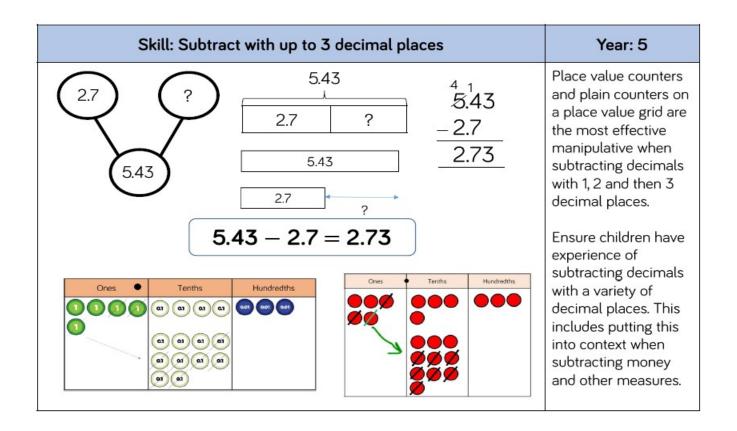




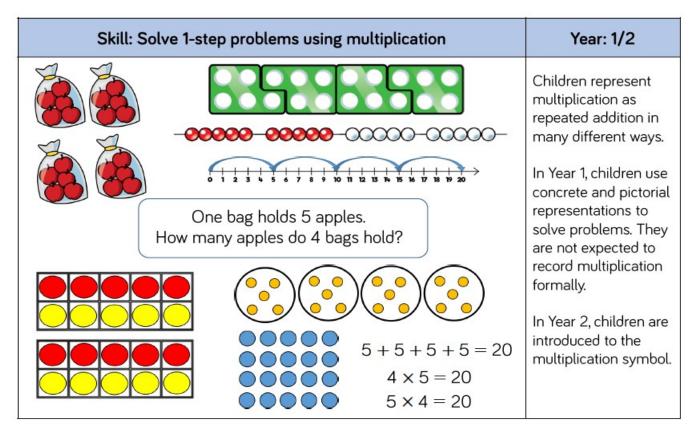


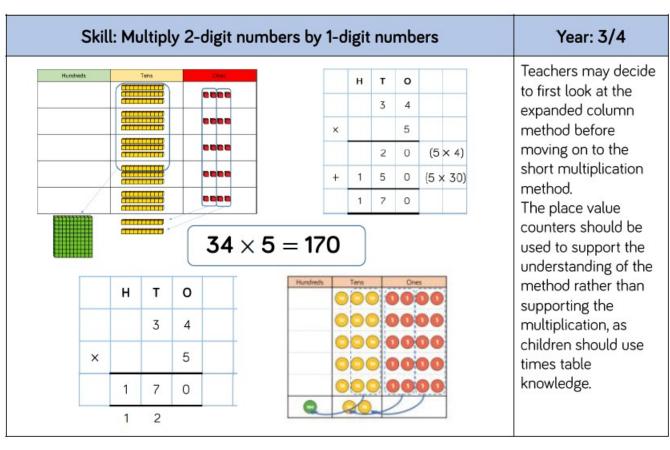


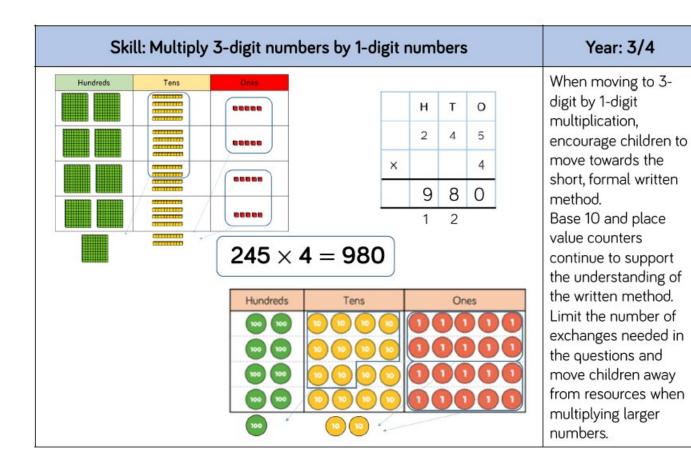


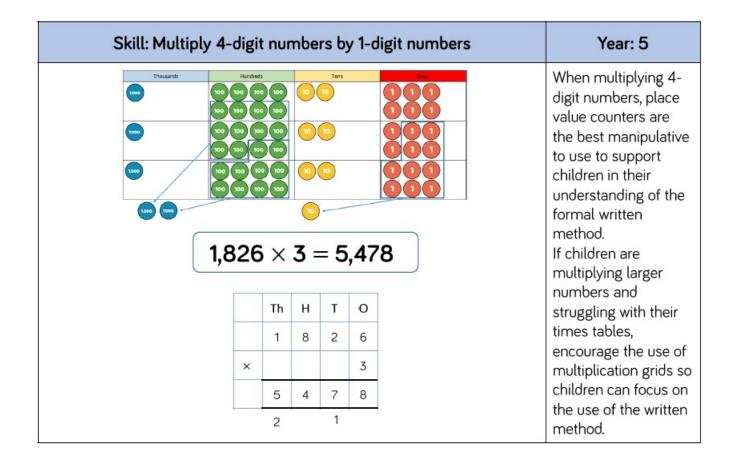


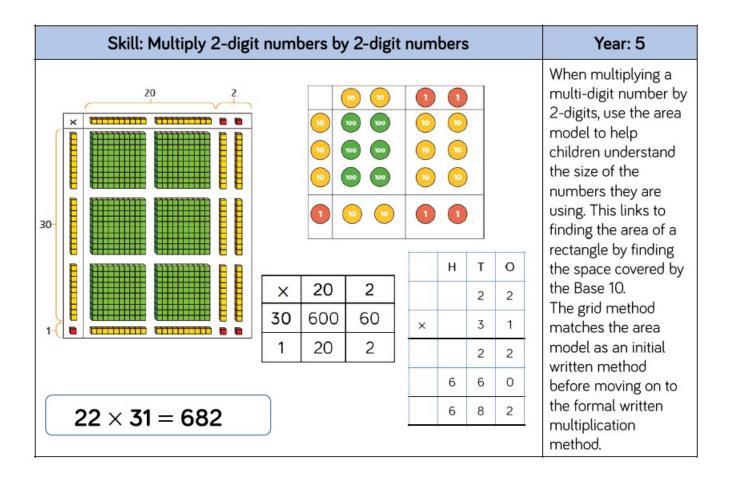
Multiplication

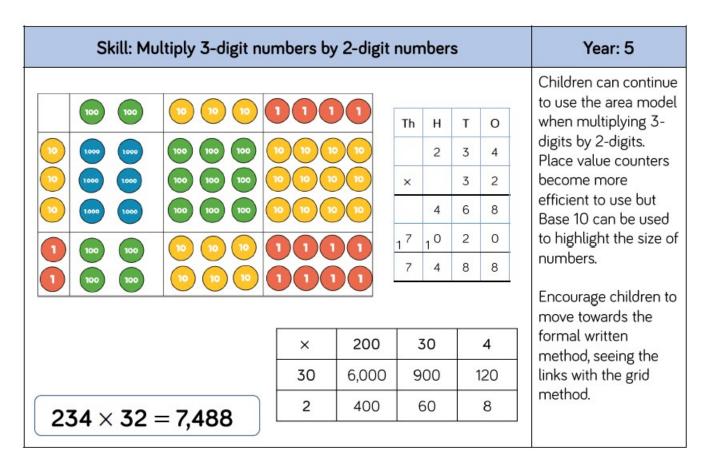






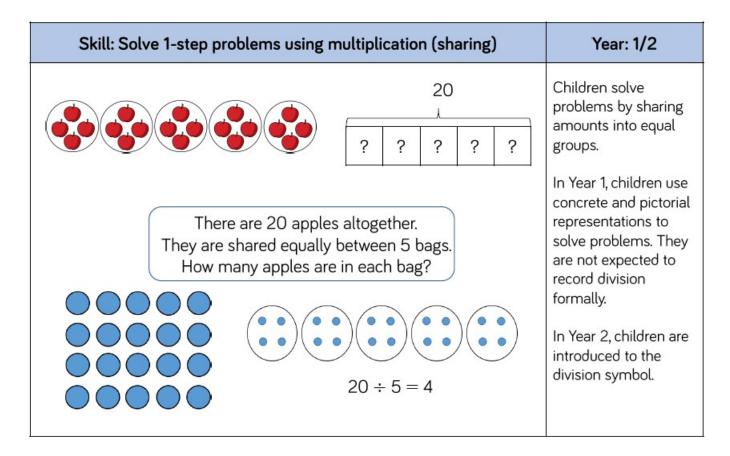


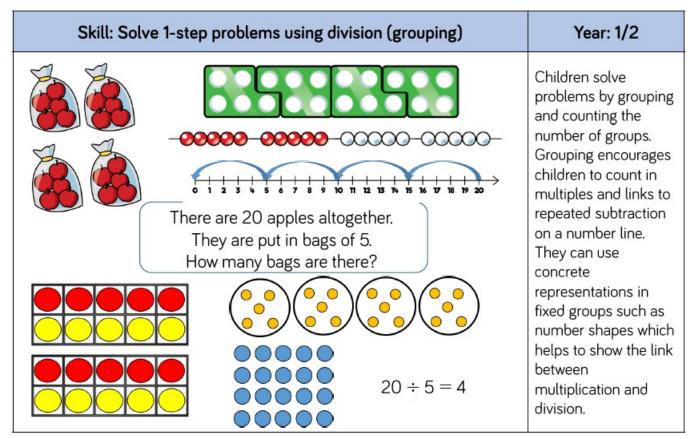


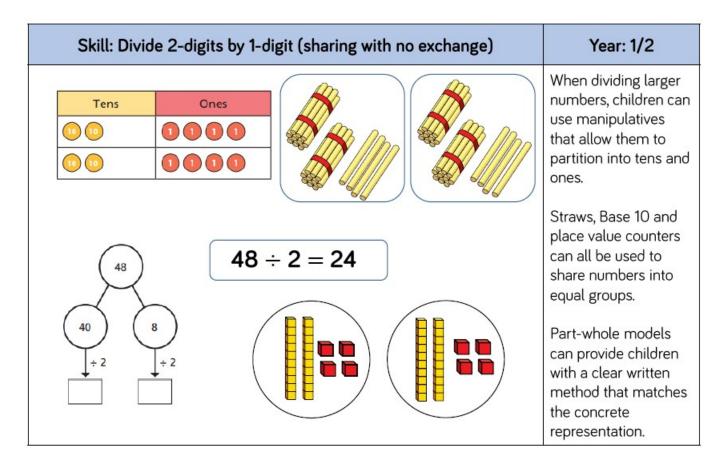


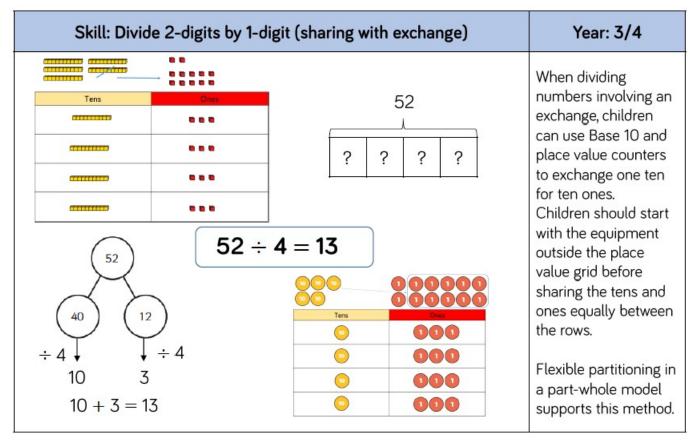
Skill: Multip	Year: 5/6						
	TTh	Th	Н	Т	0		When multiplying 4- digits by 2-digits, children should be
		2	7	3	9		confident in the written method.
	×			2	8		If they are still struggling with times
	2	1 5	9	1 7	2		tables, provide multiplication grids to support when they are focusing on the use of the method.
	5 1	4	7	8	0		
	7	6	6	9	2		Consider where
2,739 × 28 =	exchanged digits are placed and make sure this is consistent						

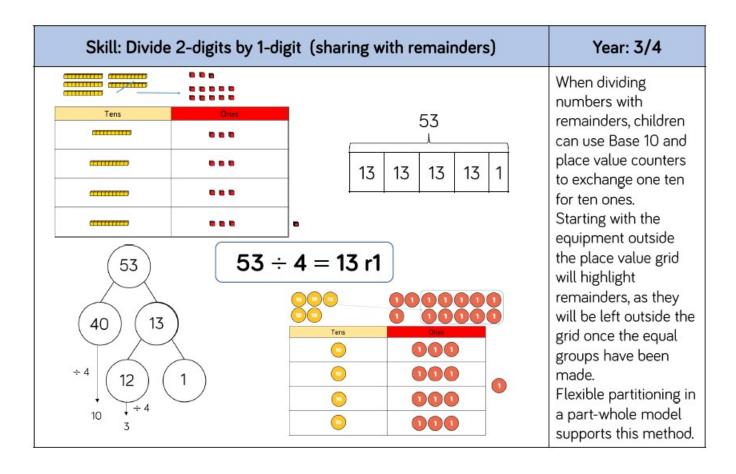
Division

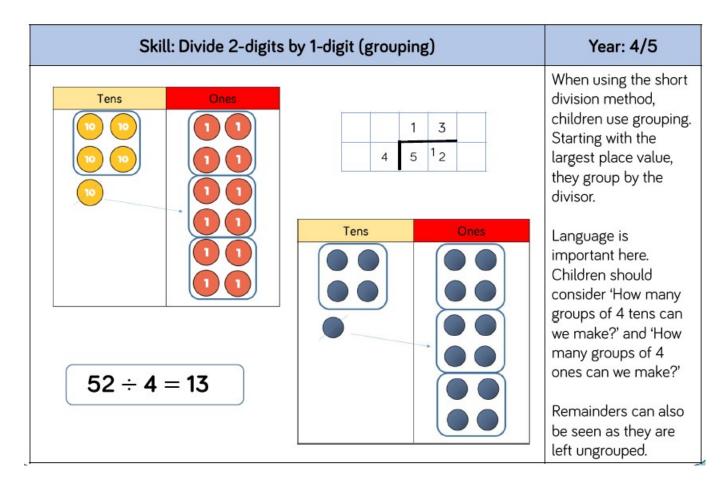


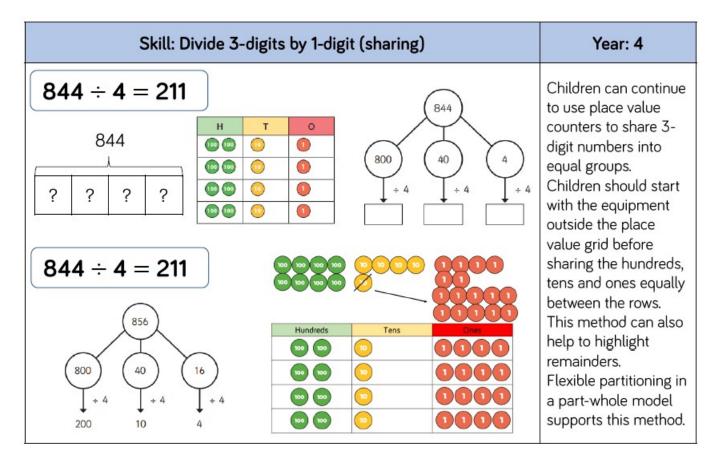


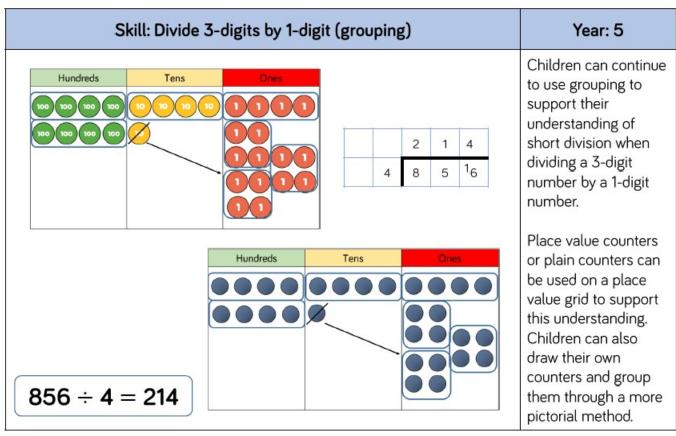


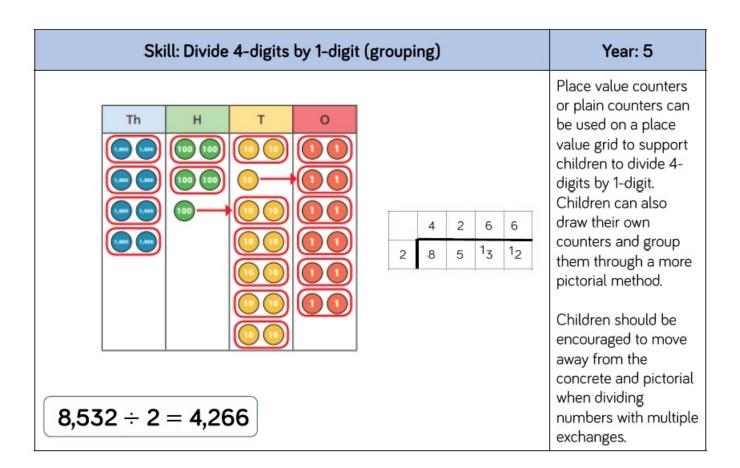












	Skill:	Year: 6								
	12	0 4	3 4 3	7 2		432	÷ 12	? = 3	6	When children begin to divide up to 4-digits by 2-digits, written methods become the most accurate as concrete and pictorial representations become less effective. Children can write out multiples to support
						0	4	8	9	their calculations with larger remainders.
7,3	35 ÷	15 =	= 48	39	15	7	7 3	¹³ ₃	¹³ ₅	Children will also solve problems with remainders where the
15	30	45	60	75	90	105	120	135	150	quotient can be rounded as appropriate.

	Skill: Divide multi-digits by 2-digits (long division)													Year: 6	
1	2 -	0 4 3	3 6 7 7	6 2 0 2 2	(×30)	$12 \times 1 = 12$ $12 \times 2 = 24$ $12 \times 3 = 36$ $12 \times 4 = 48$ $12 \times 5 = 60$ $12 \times 6 = 72$ $12 \times 7 = 84$ $12 \times 8 = 96$ $12 \times 7 = 108$ $12 \times 10 = 120$			43	32	÷	12 =	= 36	Children can also divide by 2-digit numbers using long division. Children can write ou multiples to support their calculations with larger remainders.	
								0	4	8	9		1 15 15	A55000	
							15	7	3	3	5		1 x 15 = 15	Children will also	
_							_	6	0	0	0	(×400	$2 \times 15 = 30$	solve problems with	
7	7.3	35	5 -	- 1	5 =	489		1	3	3	5		$3 \times 15 = 45$	remainders where th	
_	,-		•	•		100		1	2	0	0	(×80)	$4 \times 15 = 60$	quotient can be	
									1	3	5		$5 \times 15 = 75$	rounded as	
							-		1	3	5	(×9)	$10 \times 15 = 150$	appropriate.	
											0				

