

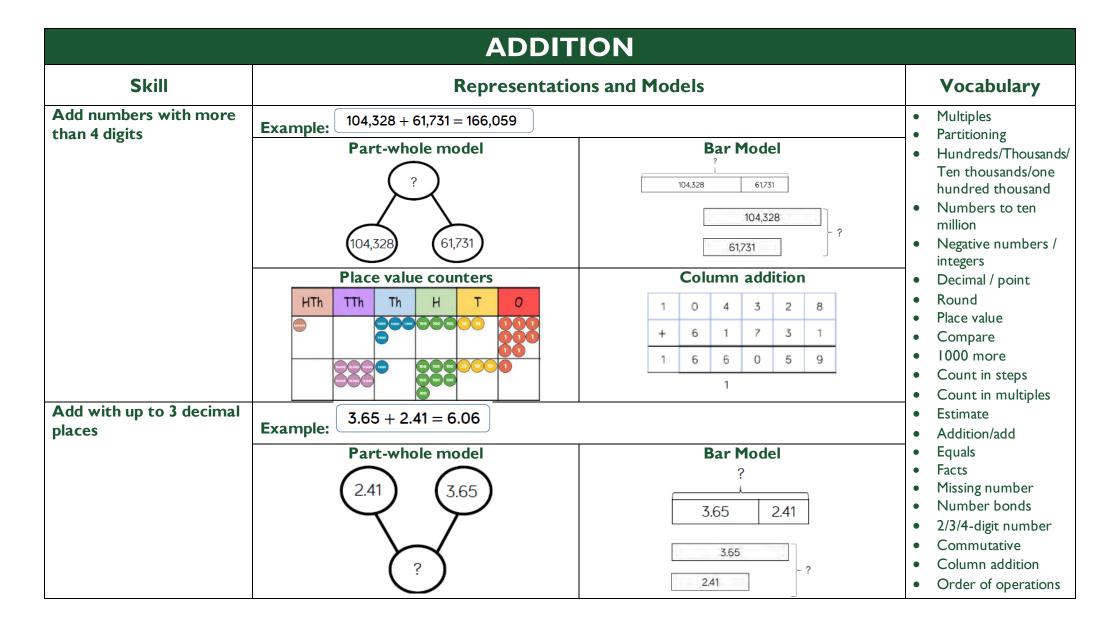
MATHS CALCULATION POLICY (Year 5 & 6)

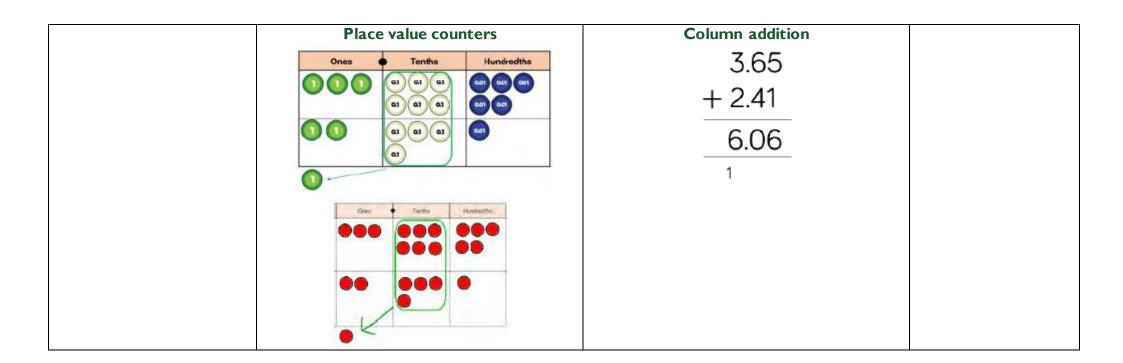
Date: July 2025

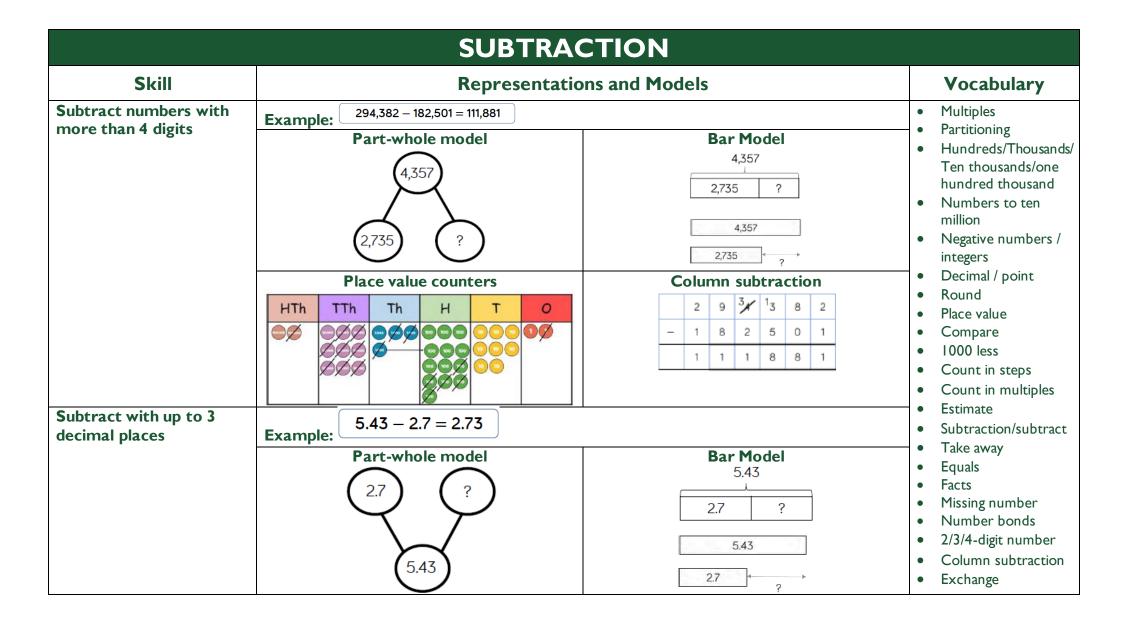
Next Review Due: September 2026

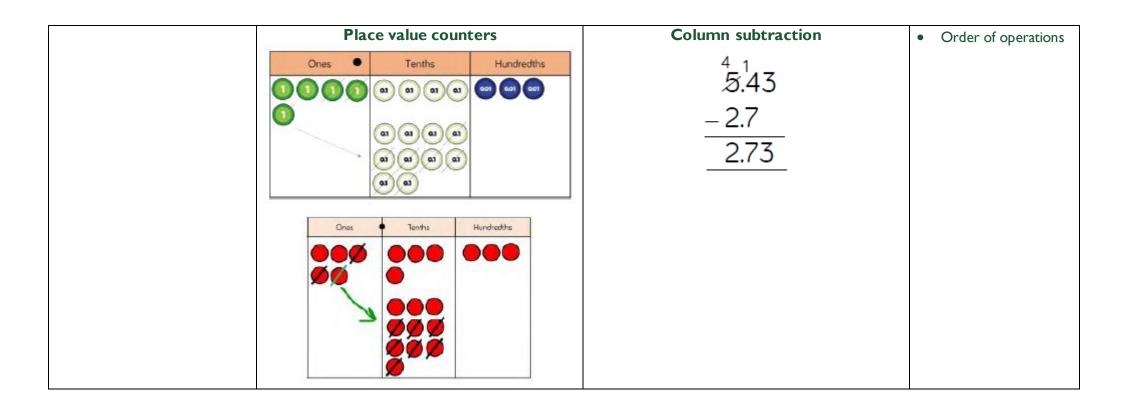
Reviewed by: Chen Lee

This policy has been largely adapted from the White Rose Maths Calculation Policy with further material added. It is a working document and will be revised and amended as necessary.









	MULTIPLIC	ATION							
Skill	Skill Representations and Models								
Multiply 4-digit numbers by I-digit numbers Multiply 2-digit numbers by 2-digit numbers	Example: $1,826 \times 3 = 5,478$ Place value counters	Short written method	 Partitioning Hundreds/Thousands/ Ten thousands/one hundred thousand Numbers to ten million Negative numbers / integers Decimal / point Round Place value Estimate 						
	Thousands Hundreds Tens Coast	Th H T O 1 8 2 6 x 3 5 4 7 8 2 1							
	Base 10	Place value counters 10 10 1 1 1 10 100 100 10 10 10 100 10	 Multiplication Multiply Arrays Times Common factors Common multiples Product 2/3/4-digit number Prime numbers Square numbers Cube numbers 						

	Grid method	Sho	ort written method
	× 20 2 30 600 60)	H T O 2 2 x 3 1 2 2 6 6 0
Multiply 3-digit numbers	1 20 2		6 8 2
by 2-digit numbers	Example: $234 \times 32 = 7$,	488	
	Place value counters	Grid method	Short written method
		× 200 30 4	Th H T O
		30 6,000 900 120 2 400 60 8	2 3 4 × 3 2
			4 6 8
			7 4 8 8
Multiply 4-digit numbers by 2-digit numbers	Example: $2,739 \times 28 = 76$	·	
		Short written method	
		TTh Th H T O	
		2 7 3 9	
		x 2 8	
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
		7 6 6 9 2	
		1	

		DIVISION		
Skill	Repr	Vocabulary		
Divide 3-digits by I-digit (grouping) Divide 4-digits by I-digit (grouping)	Flace value counters Tens Ones 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Place value grid Tens Ones Ones Ones Ones Ones Ones Ones O	Written short division 1 3 4 5 12	 Partitioning Hundreds/Thousands/ Ten thousands/one hundred thousand Numbers to ten million Negative numbers / integers Decimal / point Round Place value
	8,532 ÷ 2 = 4,266 Place value counters Th	2 W r	ritten short division 4 2 6 6 8 5 1 ₃ 1 ₂	 Estimate Division / Divide Share Exchange Remainders Common factors Common multiples Inverse 2/3/4-digit number Prime numbers Square numbers Cube numbers Short/long division Dividend

Divide multi-digits by 2-digits (short division)	Example: 432 ÷ 12 = 36					7,335 ÷ 15 = 489								Divisor Quotient	
		12	0 4	3 4 3	6 7 2		15	5		7	7	3	8 13 3	9 13 ₅	
Divide multi-digits by 2-digits (long division)	1 2	0 3 4 3	\div 12 = $\frac{6}{2}$ (×30 $\frac{2}{2}$ (×6) $\frac{2}{2}$	12 × 12 × 12 × 12 × 12 × 12 × 12 × 12 ×	1 = 12 2 = 24 3 = 36 4 = 48 5 = 60 6 = 72 7 = 84 8 = 96 7 = 108 10 = 120	E	15 – – – –	0 7 6 1 1	4 3 0 3 2 1 1	7,3 8 3 0 3 0 3 3	9 5 0 5 0 5 5	(×400 (×80) (×9)	1 × 1 2 × 1 3 × 1 4 × 1 5 × 1	5 = 15 15 = 30 15 = 45 15 = 60 15 = 75 15 = 150	