

Year 3 - Addition

Core written method:

		H	T	O
		3	4	5
		+	4	3
				2

Core end of year expectation:

- Add and subtract numbers with up to three digits using column methods.
(See WR small steps list for progression).

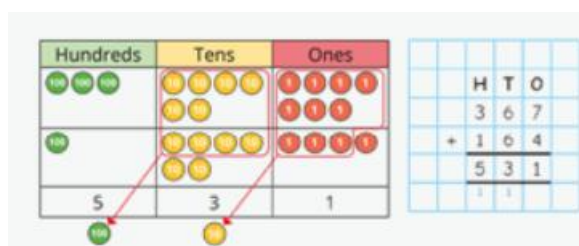
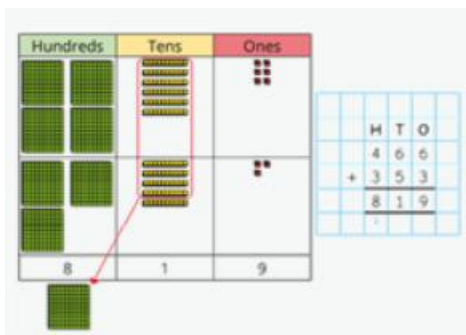
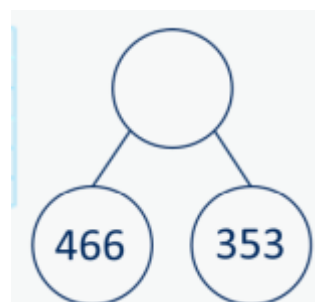
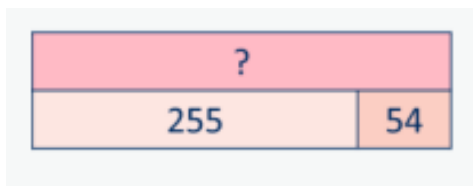
NC links:

- add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
- estimate the answer to a calculation and use inverse operations to check answers
- solve problems, including missing number problems, using number problems, using number facts, place value and more complex addition and subtraction.
- add and subtract numbers mentally, including: a 3-digit number using ones, tens, hundreds

Vocabulary:

column, addition, column, subtraction, digit, estimate, exchange, hundred(s), inverse, crossing the 10, crossing the 100.

Representations:



Year 4 - Addition

Core written method:

		Th	H	T	O
		4	6	7	3
	+	1	5	1	8
		6	1	9	1
		1		1	

Core end of year expectation:

- Add and subtract numbers with up to four digits using column methods and understand the inverse relationship.

(See WR small steps list for progression).

NC links:

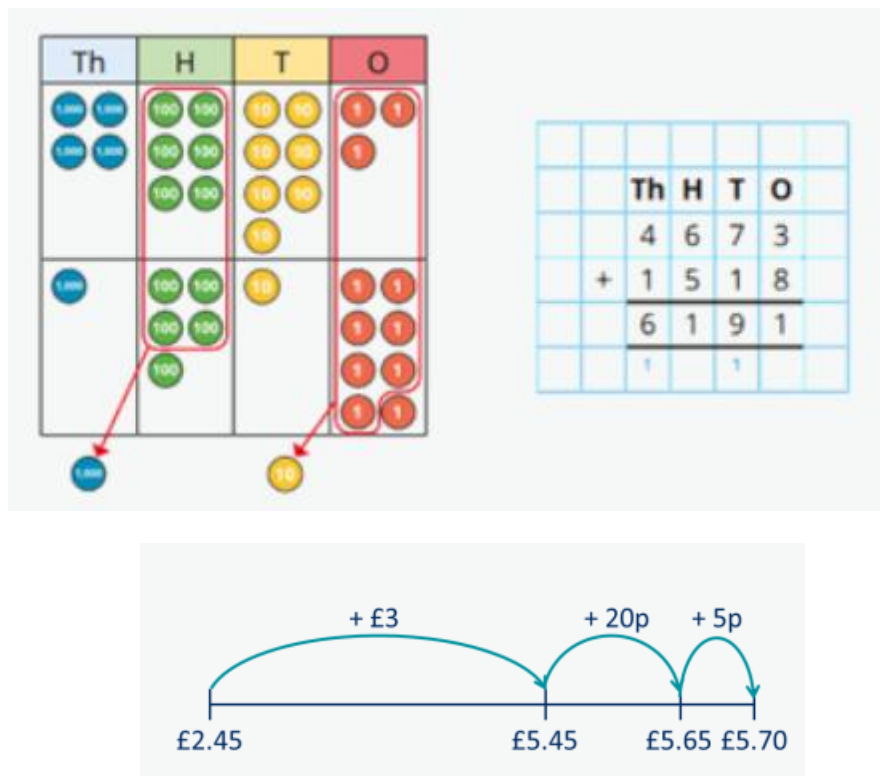
- add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
- estimate and use inverse operations to check answers to a calculation
- solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Vocabulary:

column, addition, column, subtraction, digit, estimate, exchange, hundred(s), inverse, crossing the 10, crossing the 100.

New in year 4: efficient, inverse, round, thousand(s)

Representations:



Year 5 - Addition

Core written method:

$$\begin{array}{r} 26574 \\ + 16231 \\ \hline 42805 \\ 11 \end{array}$$

$$\begin{array}{r} 41 \\ + 284 \\ \hline 89926 \end{array}$$

Core end of year expectation:

- To add larger whole numbers.
(See WR small steps list for progression).

NC links:

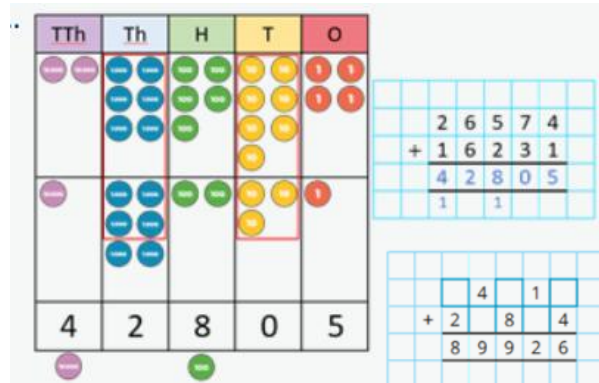
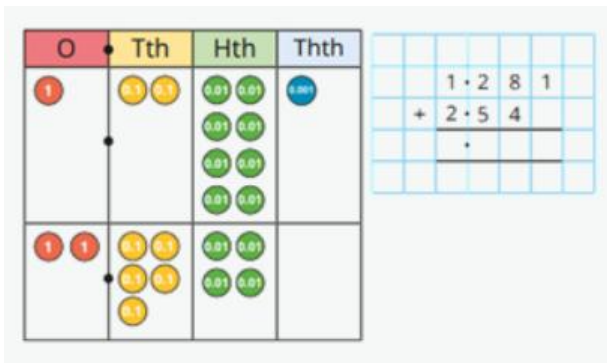
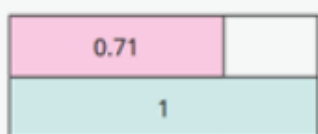
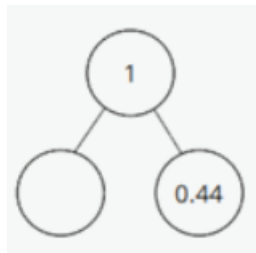
- add and subtract numbers mentally with increasingly large numbers
- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Vocabulary:

column, addition, column, subtraction, digit, estimate, exchange, hundred(s), inverse, crossing the 10, crossing the 100s, efficient, inverse, round, thousand(s)

New in Year 5: accurate, approximate, constant difference, strategy

Representations:



Year 6 - Addition

Core written method:

		3	4	6	2	2	1
	+	1	8	4	3	2	1
		5	3	0	5	4	2
		1	1				

		1	5	0	2	7	
	+		9	5	8		
		2	4	6	0	7	
		1		1			

Core end of year expectation:

- To add large numbers and numbers with decimals up to 3dp
(See WR small steps list for progression).

NC links:

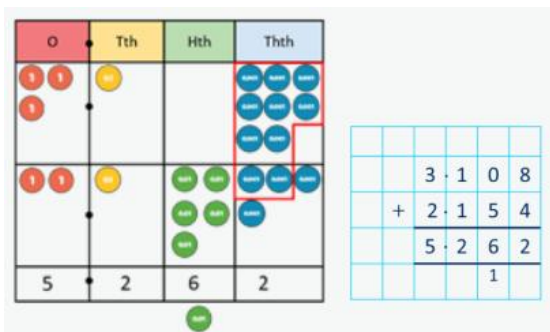
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- perform mental calculations, including with mixed operations and large numbers
- solve problems involving addition, subtraction, multiplication and division
- use estimation to check answers to calculations and determine, in the context of problem, an appropriate degree of accuracy.
- Use their knowledge of the order of operations to carry out calculations involving the four operations.

Vocabulary:

column, addition, column, subtraction, digit, estimate, exchange, hundred(s), inverse, crossing the 10, crossing the 100s, efficient, inverse, round, thousand(s), accurate, approximate, constant difference, strategy

New in Year 6: order of operations

Representations:



?		
2,354	750	1,500

		8	1		8	5	
	+			0	6		
		9	9	5		8	

		3	4	6	2	2	1
	+	1	8	4	3	2	1
		5	3	0	5	4	2
		1	1				