Year 3: Column addition	with carrying (see below *)					
442 + 335 = 777 4 4 2 <u>3 3 5</u> + <u>7 7 7</u>	$872 + 541 = 1413$ 872 $541 + $ $\frac{1413}{11}$	 Add numbers with up to three digits, using the formal written methods of column addition Estimate the answer to a calculation and use inverse operations to check answers 				
Year 4: Column addition	with carrying (see below *)					
442 + 335 = 777	7872 + 541 = 8413	Add numbers with up to 4 digits using the formal written methods of column addition where appropriate				
4 4 2	7872	Estimate and use inverse				
<u>335</u> +	<u>541</u> +	operations to check answers				
<u>777</u>	$\frac{8413}{11}$	to a calculation				
Year 5: Column addition with carrying (including decimals up to 2 decimal places)						
7176 + 6147 = 13323	4.28 + 7.99 = 12.27	Add whole numbers with more than 4 digits, including using formal written methods				
7176	4.28	(column addition) • Use rounding to check				
6147+	7.99+	answers to calculations and				
13323	12.27	determine, in the context of				
11	$\frac{1}{1}$	a problem, levels of accuracy				
		• Use addition methods in a range of real life and				
		problem based contexts.				
Year 6: Column addition with carrying (including decimals up to 3 decimal places)						
7176 + 6147 = 13323	4.28 + 7.99 = 12.27	<u>As above.</u>				
7176	4 2 8					
6147+	7 99+					
12222	<u>7.55</u> + 12.27					
13323	$\frac{12.27}{11.1}$					
* Use expanded methods if necessary to support move to formal method						

Addition: Written Calculations

47	10 7		47
47	= 40 + 7		+ 76
+ 76	70 + 6	or	13
	110 + 13 = 123		<u>110</u>
			123

Year 3: Column subtraction (see below *)					
932 - 457 $242 - 131 = 111$ $932 - 457$ $242 - 457$ -131 111 475	 Subtract numbers with up to three digits, using the formal written methods of column subtraction Estimate the answer to a calculation and use inverse operations to check answers 				
Year 4: Column subtraction (see below *)					
$3675 - 1234 = 2441$ $2 \times 5 4$ 3675 $- \frac{1234}{2441}$ $- 1 5 6 2$ $1 9 2$	 Subtract numbers with up to 4 digits using the formal written methods of column subtraction where appropriate Estimate and use inverse operations to check answers to a calculation 				
Year 5: Column subtraction (including decimals up to 2	decimal places)				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	 Subtract whole numbers with more than 4 digits, including using formal written methods (column subtraction) Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Use subtraction methods in a range of real life and problem based contexts. 				
Year 6: Column subtraction (including decimals up to 3	<u>decimal places)</u>				
x x x x x x x x x x x x x x x x x x x	<u>As above.</u>				

Subtraction: Written Calculations

* Use expanded methods if necessary to support move to formal method

Year 3: Grid method leading to short multiplication							
35×7 $x 30$ $7 210$ $210 + 35 = 245$	24 ×	6 2 4 × 6 1 4 4 2	• Write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two- digit numbers times one-digit numbers, progressing to efficient written methods				
Year 4: Short I	Aultiplication (see belo	ow *)					
342 × 7 3 4 × 2 3 9 2 1	2 7 4		 Multiply two-digit and three- digit numbers by a one-digit number using a formal written layout 				
Year 5: Short r	nultiplication (including	decimals in cont	rext) *				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 1 6 4 6 4 6 12000 1800 60 2400 360 12	= 53 860 = 10 772 + 	 Multiply numbers up to 4 digits by a one-digit number using a formal written method Multiply numbers up to 3 digits by a two-digit number using the grid method 				
Year 6: Short a	and long multiplication	(including decima	ls in context)				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	 Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Where there is a digit to be carried when multiplying by the tens digit, this will be written below the multiplication but above the addition calculation. 				

Multiplication: Written Calculations

* Continue to use grid method if necessary to support move to short multiplication







* Use expanded methods if necessary to support move to formal method