
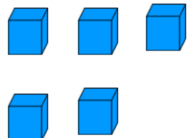
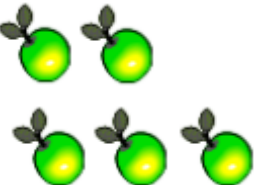
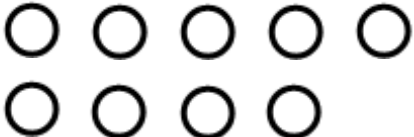
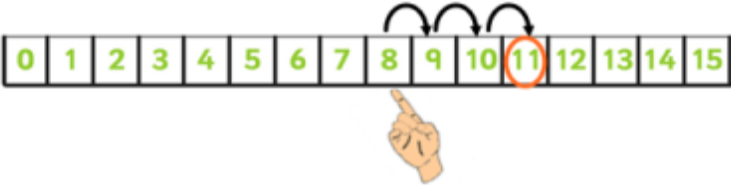
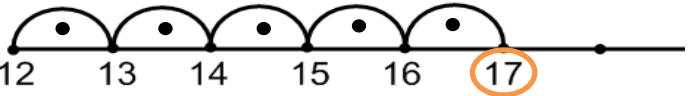
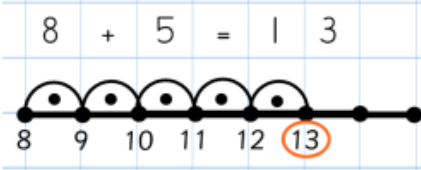


Addition



Year Group	Recording	Rapid Recall	Mental Calculation
Nursery Reception	<p>Practically combining 2 sets without number sentence</p>  <p>$3 + 2 = 5$</p> 	<p>Songs and rhymes involving addition</p> <p>Count reliably with numbers from 1 to 20.</p> <p>Recall 1 more than a given number.</p>	<p>Add 2 single digit numbers by counting on</p> <p>$3 + 2$ 3, <u>4, 5</u></p>
Year 1	<p>Solve one-step problems including missing number problems.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="241 751 495 1011"> <p>Using pictures</p> <p>$2 + 3 = 5$</p>  </div> <div data-bbox="725 751 1137 995"> <p>Drawing using symbols</p> <p>$5 + 4 = 9$</p>  </div> </div> <p>Number track</p> <p>$8 + 3 = 11$</p>  <p>Guided number line</p> <p>$12 + 5 = 17$</p>  <p>Draw own number line</p> <p>$8 + 5 = 13$</p> 	<p>Recall addition facts up to 10.</p> <p>Recall doubles to $10 + 10$</p> <p><i>When children have mastered using a number line, they can solve addition by counting on in their head.</i></p>	<p>Add a single digit number up to 20 by counting on</p> <p>$7 + 6$ 7, <u>8, 9, 10, 11, 12, 13</u></p>

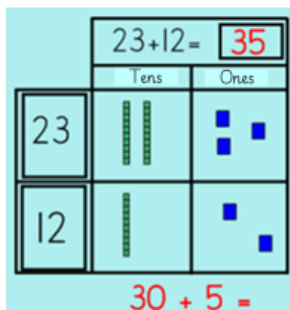
Addition



Year 2

Use the inverse to check calculations including missing number problems.

Practical partitioning and recombining



Recording partitioning and recombining

T	O	+	T	O			
2	6	+	6	3	=	8	9
2	0	+	6	0	=	8	0
	6	+		3	=		9
8	0	+		9	=	8	9

Bridging TO + TO

T	O	+	T	O		
3	7	+	4	5	=	8 2
3	0	+	4	0	=	7 0
	7	+		5	=	1 2
7	0	+	1	2	=	8 2

Bridging HTO + HTO

H	T	O	+	H	T	O				
2	7	2	+	6	5	6	=	9	2	8
2	0	0	+	6	0	0	=	8	0	0
	7	0	+		5	0	=	1	2	0
		2	+			6	=			8
8	0	0	+	1	2	0	+	8	=	9 2 8

Recall addition facts up to 20

Derive addition facts up to 100

Recall number bonds for multiples of 5 totalling 60

Add any single digit to a two digit number by counting on.
 1 more/10 more
 $32 + 1$
 $32 + 4$
 $32 + 10$
 Add 3 single digits
 $3 + 2 + 4$

Year 3

Add numbers with up to 3 digits using expanded column addition.

	5	4			8	6	
+	2	3		+	3	7	
		7			1	3	
	7	0			1	1	0
	7	7			1	2	3

	2	3	6
+	1	5	8
		1	4
		8	0
	3	0	0
	3	9	4

Estimate the answer to a calculation and use inverse operations to check answers.
 Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction.

Count in ones, tens and hundreds to 1000

Find 10 or 100 more

Add:
 HTO + O
 $263 + 5$
 HTO + T
 $263 + 30$
 HTO + H
 $263 + 200$
 TO + TO
 $65 + 43$
 mentally where answers can exceed 100

Addition



<p>Year 4</p>	<p>Add numbers with up to 4 digits using expanded column addition leading to compact column addition Estimate the answer to a calculation and use inverse operations to check answers. Solve addition two-step problems in contexts, deciding which operations and methods to use</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $1456 + 2594 =$ </div> <div style="text-align: center;"> $1456 + 2594 =$ </div> </div> <div style="text-align: center; margin-top: 20px;"> </div>	<p>Count forwards and backwards through zero to include negative numbers</p> <p>Find 1000 more</p>	<p>Add mentally combinations of two and three digit numbers and decimals to one decimal place</p> <p>e.g. $145 + 23 = 168$</p> <p>$5.3 + 3.4 = 8.7$</p>
<p>Year 5</p>	<p>Add whole numbers with more than 4 digits using compact column addition Add decimals, including decimals with different numbers of decimal places Use rounding to check answers to calculations Solve addition multi-step problems in contexts, deciding which operations and methods to use Solve problems involving all 4 operations, including understanding the meaning of the equals sign including missing number problems</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $19456 + 25594 =$ </div> <div style="text-align: center;"> $19456 + 25594 =$ </div> </div> <div style="text-align: center; margin-top: 20px;"> </div>	<p>Count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000</p> <p>Count forwards and backwards with positive/negative integers and decimals/fractions</p>	<p>Add mentally e.g. $12462 + 2300 = 14762$</p> <p>Add tenths and 0.t $0.3 + 1.4$</p>
<p>Year 6</p>	<p>Add large numbers using compact column addition Solve multi-step problems in contexts, deciding which operations and methods to use Use estimation to check answers to calculations</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $91456 + 9594 =$ </div> <div style="text-align: center;"> $91456 + 9594 =$ </div> </div> <div style="text-align: center; margin-top: 20px;"> </div>	<p>Count forwards and backwards in steps of integers, decimals or powers of 10 for any number</p>	<p>Perform mental calculations with mixed operations and large numbers $23 \frac{1}{2} + 18.7$</p>