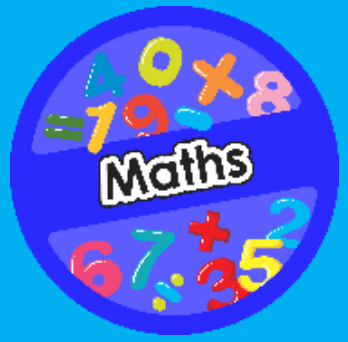
Written Methods for Addition

add
plus
sum of
addend



EYFS

Have a deep understanding of number to 10, including the composition of each number.

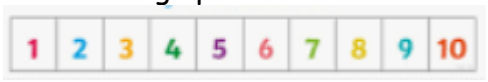
Strategies include:

Using Numicon to spot patterns:



= 1 and 2

Counting up a number track:



Adding set using objects:

5 + 2 = 7



Counting on from the larger set.
3 + 6 = 9

(6 in head) then 7, 8, 9 Children could use fingers or objects to count on.

Year 1

To find one more and one less
To use + - and = signs
To add and subtract one-digit and two-digit numbers to 20, including zero.

Strategies include:

Using objects to add on from the largest number.

15 + 6 = 21



16 17 18 19 20 21

Drawing dots to help count

14 + 5 = 19



Using number lines or 100 squares to jump on:
12 + 5 = 17



Year 2

To add a one-digit to a two digit.
To add a two-digit number and tens.
To add two two-digit numbers.
To add three one-digit numbers.

Strategies include:

Using number bonds:

18 + 5 = 23
18 + **2** + 3 = 23

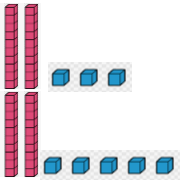
Looking for facts:

6 + **4** + 3 = 13 (number bonds)
6 + 5 + **6** = 17 (doubles)
7 + **6** + 2 = 15 (near doubles)

Partitioning:

40
23 + 25 = 48
8

Tens and ones:



20 + 20 = 40
5 + 3 = 8
40 + 8 = 48

Expanded Column method:

2 3
\+ 5 4
7 (3 + 4 = 7)
7 0 (50+20 =70)
7 7

Year 3	Year 4	Year 5	Year 6
To add a three-digit number and ones. To add a three-digit number and tens To add a three-digit number and 100s. To add and subtract with numbers up to 3 digits.	To add up to four-digit numbers using formal written methods. To estimate and use inverse operations to check answers to a calculation.	To add up with more than four-digit numbers using formal written methods.	
Expanded Column method: 2 3 + 5 4 7 (4 + 3 = 7) 7 0 (50+20 =70) 7 7 Column method 3 digit and 2 digit: 4 5 1 + 2 3 4 7 4 Column method of 3-digit + 3-digit: 7 8 9 + 6 4 2 1 4 3 1 1 1	Column method with up to 4 digit numbers. 2 3 6 2 + 4 5 6 4 6 9 2 6 1	3 5 2 1 6 3 + 4 5 2 7 9 1 8 0 4 9 5 4 1 1 To include the use of decimals: 6.7 + 3.84 = 6.70 + 3.84 10.54 1 4 0 1 . 2 0 2 6 . 8 5 + 0 . 7 1 4 2 8 . 7 6 1	