Winford Church of England Primary School

Progression in written calculation strategies for addition

(Examples indicate **end of year** expectations)

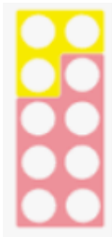
Reception

LION

Statutory Guidance

Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer.

e.g. 7 add 3



Year 1

LEOPARD

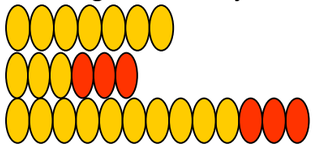
Statutory Guidance

Add one-digit and two-digit numbers to 20, including zero. Solve one-step problems that involve addition, using concrete objects and pictorial representations, and missing number problems.

Possible representations

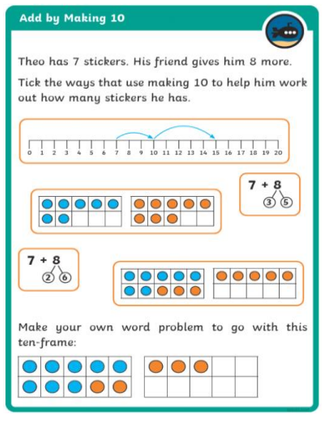
e.g. 7 + 6 =

Using concrete objects



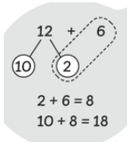
Using pictorial representations

e.g. 13 + 5 =



Add by adding ones

e.g. 12 + 6 =



Year 2

PANTHER

Statutory Guidance

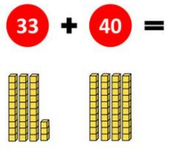
Solve problems with addition:

- using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- applying their increasing knowledge of mental and written methods

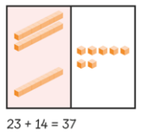
Add numbers using concrete objects, pictorial representations, and mentally, including:

- a two-digit number and ones
- a two-digit number and tens
- two two-digit numbers
- adding three one-digit numbers

Using Base 10 representations to add two 2-digit numbers e.g.



Adding two 2-digit numbers using column addition e.g.



	tens	ones
	2	3
+	1	4
	3	7

Year 3

TIGER

Statutory Guidance

Add numbers with up to three digits, using formal written methods of column addition.

Solve problems, including missing number problems, using number facts, place value, and more complex addition.

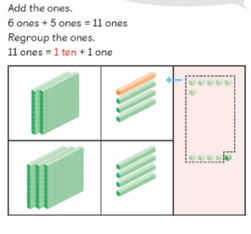
e.g. 376 + 57 = (expanded addition with exchanging)

```
  ___
  1 2 0
  ___
```

Or 236 + 345 = 581 (compact addition with exchanging)

	h	t	o
	2	3	6
+	3	4	5
	5	8	1
		1	

Using Base 10 to support.



Year 4

JAGUAR

Statutory Guidance

Add numbers with up to 4 digits using the formal written methods of column addition where appropriate

e.g. 6321 + 858

```
  6 3 2 1
+   8 5 8
  -------
  7 1 7 9
  -------
  1
```

Measurement

Based on statutory guidance linked to money and measures to 2 decimal places.

e.g. 67.75 + 21.50

```
  6 7 . 7 5
+ 2 1 . 5 0
  -------
  8 9 . 2 5
  -------
    1
```

Year 5

LYNX

Statutory Guidance

Add whole numbers with more than 4 digits, including using formal written methods (column addition)

e.g. 12478 + 73649

```
  1 2 4 7 8
+   7 3 6 9
  -------
  1 9 8 4 7
  -------
      1 1
```

Measurement

Based on statutory guidance linked to money and measures to 2 decimal places.

Year 6

PUMA

Statutory Guidance

Solve addition multi-step problems in contexts, deciding which operations and methods to use and why

Measurement

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Children will be adding decimals and fractions securely.