CORPUS CHRISTI CATHOLIC PRIMARY SCHOOL

Progression in written calculation strategies for addition

(Examples indicate end of year expectations)

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Year 1

<u>Statutory Guidance</u>

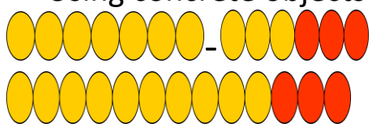
Add one-digit and two-digit numbers to 20, including zero.

Solve one-step problems that involve addition, using concrete objects and pictorial representations, and missing number problems.

<u>Possible representations</u>

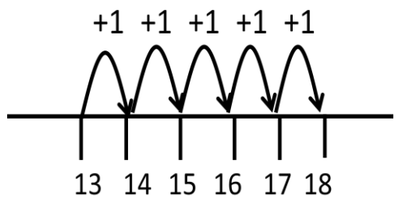
e.g. 7 + 6 =

Using concrete objects

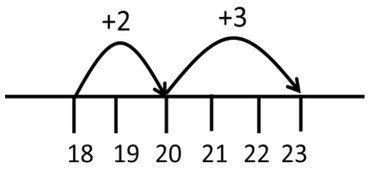


Using pictorial representations

e.g. 13 + 5 =



Addition using more efficient jumps



Year 2

<u>Statutory Guidance</u>

Solve problems with addition:

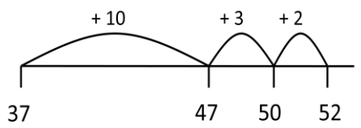
- using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- applying their increasing knowledge of mental and written methods

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

e.g. 37 + 15 =

2 digit number add a 2 digit number using efficient place value jumps



<u>Non–statutory guidance</u>

34 + 23 =

30	4		34
+ 20	3		23
50	7	=	57

Year 3

<u>Statutory Guidance</u>

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

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

e.g. 376 + 57 =

(expanded addition)

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

Or

300	70	6	34	
+	50	7	23	
400	30	3	=	57
100	10			

Year 4

<u>Statutory Guidance</u>

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

e.g. 6321 + 858 =

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

<u>Measurement</u>

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

<u>Statutory Guidance</u>

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

e.g. 12478 + 73649 =

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

<u>Measurement</u>

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

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

Year 6

<u>Statutory Guidance</u>

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

<u>Measurement</u>

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