Key Stage 1 – Addition

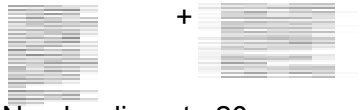
Y1

Through practical activities in meaningful contexts and informal written methods.

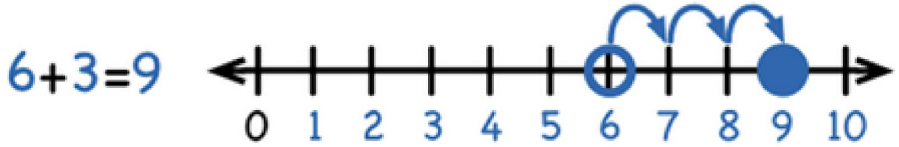
- Recall number bonds to 20 and within 20.
- Pictures and Marks – 1 more / 2 more.
  There are 3 cars in the garage. 1 more came along.

3 + 1 = 4 4 + 1 = 5

Terry has 3 apples and Tony has 2 apples. How many altogether?



- Number lines to 20.



- Derive related facts to 20.

□ = 5 + 4
5 + 4 = □

□ + 4 = 9
□ + □ = 9

- Money and addition up to 20p.
- Read, write and interpret mathematical statement involving addition (+) and equals (=).

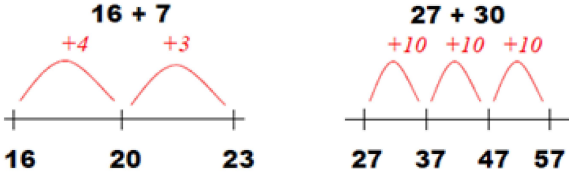
Video clips:
[Using a range of equipment and strategies to reinforce addition statements]

National Curriculum requirements:
Add 1 digit and 2 digit numbers to 20, including 0.

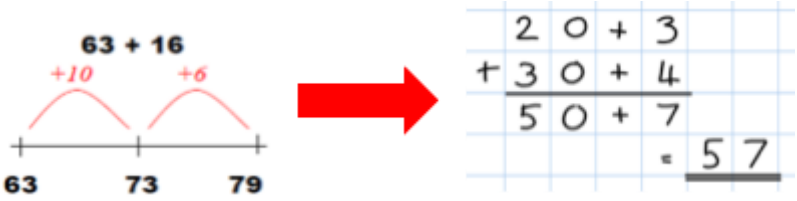
Y2

Through practical activities in meaningful contexts and informal written methods.

- Fluent recall of bonds to 20 and within 20.
- Derive and use related facts up to 100.
- Addition of money up to £1.
- Add numbers using concrete objects, pictorial representations and mentally.



- Show that addition of two numbers can be done in any order (commutative).
- Recognise and use the inverse relationship between addition and subtraction.
- Progressing to partitioned columnar method (in preparation for year 3).



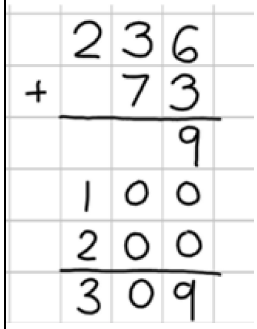
National Curriculum requirements:
(using concrete objects, pictorial representations and mentally)
Add 2 digit numbers and ones.
Add 2 digit number and tens.
Add two 2 digit numbers.
Add three 1 digit numbers.

Key Stage 2 – Addition

Y3

- Continue with partitioned columnar method.
- Introduce expanded columnar addition.

H T O



Progressing to the compact columnar method.

T O	H T O	T O	H T O	T O	H T O
2 3	3 1 5	9 4	5 6 1	4 7	2 3 7
+ 4 2	+ 6 2 4	+ 7 3	+ 7 1 8	+ 2 5	+ 5 1 6
6 5	9 3 9	1 6 7	1 2 7 9	7 2	7 5 3
				1	1

- Add money using both £ and pence in practical contexts.

Video clip:
[Demonstration of expanded 3 digit columnar addition]

National Curriculum requirements:
Add numbers with up to 3 digits, using the formal written method of columnar addition.

Y4

- Continue with columnar addition.

H T O	H T O	Th H T O
3 7 1	3 7 6	2 3 8 8
+ 4 8 5	+ 4 8 5	+ 1 1 2 4
8 5 6	8 6 1	3 5 1 2
1	1 1	1 1

- Estimate and use inverse operations to check answers to a calculation.
- Add money using both £ and pence in practical contexts.

National Curriculum requirements:
Add numbers with up to 4 digits, using the formal written method of columnar addition.

Key Stage 2 – Addition

Y5

- Continue to use columnar addition, adding numbers with more than 4 digits.

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   3  2879
+  3  5987
   6  8866
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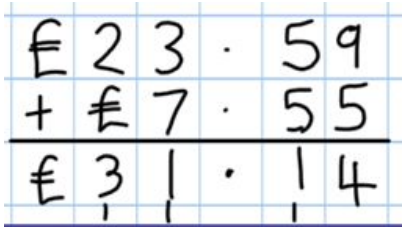
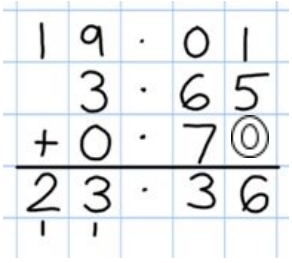
- Addition of money and decimals.

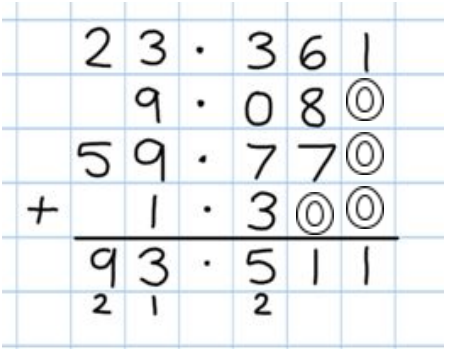


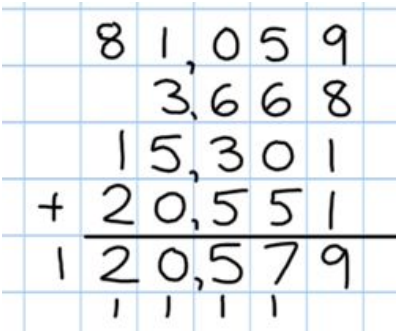


National Curriculum requirements:
Add whole numbers with more than 4 digits, using the formal written method of columnar addition.

Y6

- Add several numbers of increasing complexity using columnar addition.





National Curriculum requirements:
Add whole numbers with more than 4 digits, using the formal written method of columnar addition.