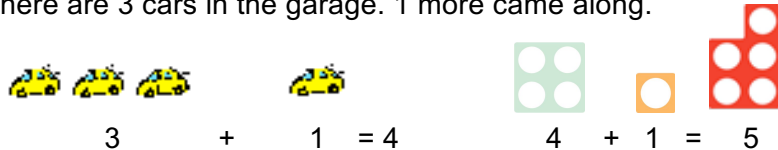


# Key Stage 1 – Addition

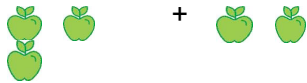
## Y1

Through practical activities in meaningful contexts and informal written methods.

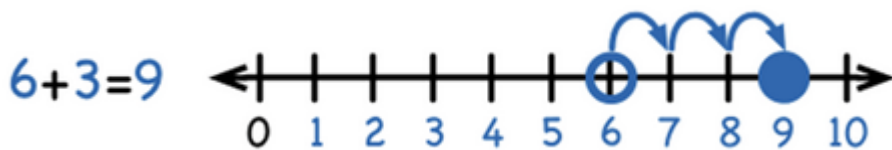
- Recall number bonds to 20 and within 20.
- Pictures and Marks – 1 more / 2 more.  
There are 3 cars in the garage. 1 more came along.



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



- Number lines to 20.



- Derive related facts to 20.

$$\square = 5 + 4$$

$$5 + 4 = \square$$

$$\square + 4 = 9$$

$$\square + \square = 9$$



- 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

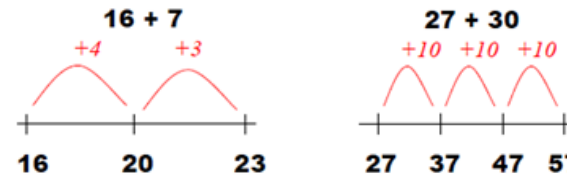
Through practical activities in meaningful contexts and informal written methods (e.g. using Dienes, 100 square)

- Fluent recall of bonds to 20 and within 20.
- Derive and use related facts up to 100.

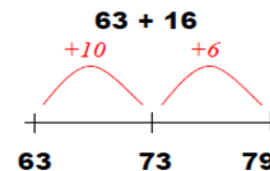


- Addition of money up to £1.

- 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).



2	0	+	3	
+	3	0	+	4
<hr/>				
5	0	+	7	
<hr/>				
			= 57	

### 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
2	3	6
+	7	3
		9
1	0	0
2	0	0
3	0	9

Progressing to the compact columnar method.

T O 23 + 42 <hr/> 65	H T O 315 + 624 <hr/> 939	T O 94 + 73 <hr/> 167	H T O 561 + 718 <hr/> 1279	T O 47 + 25 <hr/> 72 1	H T O 237 + 516 <hr/> 753 1
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- 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 371 + 485 <hr/> 856 1	H T O 376 + 485 <hr/> 861 1 1	Th H T O 2388 + 1124 <hr/> 3512 1 1
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- 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.

$$\begin{array}{r} 3 \quad 2 \quad 8 \quad 7 \quad 9 \\ + 3 \quad 5 \quad 9 \quad 8 \quad 7 \\ \hline 6 \quad 8 \quad 8 \quad 6 \quad 6 \end{array}$$

- Addition of money and decimals.

$$\begin{array}{r} \text{£} 23.59 \\ + \text{£} 7.55 \\ \hline \text{£} 31.14 \end{array}$$

$$\begin{array}{r} 19.01 \\ 3.65 \\ + 0.70 \\ \hline 23.36 \end{array}$$

### 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.

$$\begin{array}{r} 23.361 \\ 9.080 \\ 59.770 \\ + 1.300 \\ \hline 93.511 \\ \begin{array}{l} 2 \quad 1 \quad 2 \end{array} \end{array}$$

$$\begin{array}{r} 81059 \\ 3668 \\ + 15301 \\ 20551 \\ \hline 120579 \end{array}$$

### National Curriculum requirements:

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