

Key Stage 1 – Addition

Y1

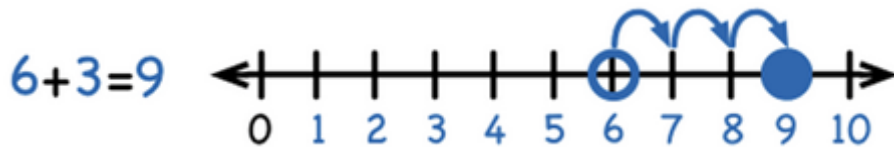
Through practical activities in meaningful contexts and informal written methods.

- 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.

$$3 + 1 = 4 \qquad 4 + 1 = 5$$

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

Y4

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

H T O

Progressing to the compact columnar method.

$$\begin{array}{r}
 \text{TO} \\
 23 \\
 + 42 \\
 \hline
 65 \quad \text{HTO} \\
 315 \\
 + 624 \\
 \hline
 939 \quad \text{TO} \\
 94 \\
 + 73 \\
 \hline
 167 \quad \text{HTO} \\
 561 \\
 + 718 \\
 \hline
 1279 \quad \text{TO} \\
 \hline
 47 \\
 + 25 \\
 \hline
 72 \\
 1 \\
 237 \\
 + 516 \\
 \hline
 753 \\
 1
 \end{array}$$

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

- Continue with columnar addition.

$$\begin{array}{r}
 \text{HTO} \\
 371 \\
 + 485 \\
 \hline
 856 \\
 \\
 376 \\
 + 485 \\
 \hline
 861 \\
 11 \\
 \\
 \text{Th HTO} \\
 2388 \\
 + 1124 \\
 \hline
 3512 \\
 11
 \end{array}$$

- 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.

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

- Addition of money and decimals.

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.

