| Year | FS- 'Maths moments video' | Year 1- 'Maths Moments video' | Year 2- 'Maths Moments video' | Year 3- 'Maths Moments video' |
| :---: | :---: | :---: | :---: | :---: |
|  | Count and order numbers to 20. Count out objects from a larger group. <br> Add single digit numbers by counting all. <br> Add single digit numbers by counting on. <br> Number bonds: 2, 3, 4. <br> Doubles up to 5 . <br> Use vocabulary such as 'more' and 'fewer' to compare sets. <br> Give one more mentally. <br> Use vocabulary of addition to talk about practical activities/problems. | Number bonds: 5, 6, 7, 8, 9, 10, 11. <br> Add 10. <br> Doubles up to 10 . <br> Largest number first. <br> 1 more. <br> Add one-digit and two-digit <br> numbers to 20 , including zero <br> Solve one-step problems that involve addition, using concrete <br> objects and pictorial <br> representations, and missing <br> number problems such as $7=\square-$ 9 | Number bonds: 20, 12, 13, 14,15, 16, 17, 18, 19. <br> Recall and use addition facts to 20 fluently, and derive and use related facts up to 100 <br> Add 1 digit to 2 digits by bridging. Partition second number, add tens then ones and recombine. <br> Add 10 and multiples of 10. <br> Doubles up to 20 and multiples of 5. <br> Add near multiples of 10 . Add and subtract numbers using concrete objects, pictorial representations, and mentally, including. | Add numbers 1 and 2 digit numbers to 3 digit numbers. <br> Add multiples of 10, 100. <br> Add single digit bridging through boundaries. <br> Partition second number to add and recombine. <br> Use near doubles to add. <br> Add near multiples of 10 and 100 by rounding and adjusting. |
|  |  |  | Counting in fractions up to 10 , starting from any numbers and using the $1 / 2$ and $2 / 4$ equivalence on the number line | Addition of fractions with the same denominator within one whole. $\frac{2}{5}+\frac{3}{5}=\frac{5}{5}$ |
|  | Mark making to represent numberscorrect formation of numbers to 10. Pictorial representations of problems. | Read, write and interpret mathematical statements involving addition (+), and equals (=) signs | Add two two-digit numbers using concrete objects, pictorial representations progressing to formal written methods. $\begin{array}{lr} 40+9 \\ +\underline{20+3} \\ \hline 60+12=72 \end{array} \quad+\underline{49} 9$ | $\begin{array}{\|lr} \hline \begin{array}{l} \text { Add numbers with up to } \\ \text { three digits, using formal } \end{array} & +\frac{88}{511} \\ \begin{array}{l} \text { written methods of } \\ \text { columnar addition with } \\ \text { regrouping to carry } \end{array} & \\ & \\ \hline \end{array}$ |

## Calculation Policy- Addition


Number track / Number line -
jumps of 1 then efficient jumps
using number bonds
$18+5=2300000000000000-00000$
$46+27=73$ Count in tens then bridge.

$25+29$ by +30 then -1
(Round and adjust)
Count on: 8+5=13

$$
=13
$$

Count on, on number track, in 1s
$8+5=13$

Use Numicon to represent addition:


Bar Model:


Number line: $264+158$ efficient jumps

$400+800=$
using $4+8=12$
$40+80=120$
So $400+800=1200$
$243+198$
by +200 then -2 (Round and adjust)


Pairs that make 100
$23+77$
—————n Bead string

Diennes 100s, 10s, 1s
$113+76$

(Also with £, 10p and 1p) Bar model

| Year | Year 3- 'Maths Moments video' | Year 4- 'Maths Moments video' | Year 5- 'Maths Moments video' | Year 6- 'Maths Moments video' |
| :---: | :---: | :---: | :---: | :---: |
| Mental Calculations Mental methods | Add numbers 1 and 2 digit numbers to 3 digit numbers. <br> Add multiples of 10, 100. <br> Add single digit bridging through boundaries. <br> Partition second number to add and recombine. <br> Use near doubles to add. <br> Add near multiples of 10 and 100 by rounding and adjusting. | Continue to add numbers mentally. Add multiples of 10s, $100 \mathrm{~s}, 1000 \mathrm{~s}$. <br> Fluency of 2 digit + 2 digit. Partition second number to add then recombine. <br> Decimal pairs of 10 and 1. Use near doubles to add. Add near multiples. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. | Add multiples of $10 \mathrm{~s}, 100 \mathrm{~s}$, 1000s, tenths. <br> Fluency of 2 digit + 2 digit including with decimals. <br> Partition second number to add then recombine. <br> Use number facts, bridging and place value. <br> Adjust numbers to add. Add and subtract numbers mentally with increasingly large numbers | Perform mental calculations, including with mixed operations and large numbers Add multiples of $10 \mathrm{~s}, 100 \mathrm{~s}, 1000 \mathrm{~s}$, tenths, hundredths. <br> Fluency of 2 digit +2 digit including with decimals. <br> Partition second number to add then recombine. <br> Use number facts, bridging and place value. <br> Adjust numbers to add. |
|  | Addition of fractions with the same denominator within one whole. $\frac{2}{5}+\frac{3}{5}=\frac{5}{5}$ | Addition of fractions with the same denominator within one whole. $\frac{2}{5}+\frac{3}{5}=\frac{5}{5}$ | Add fractions with the same denominator and denominators that are multiples of the same number. $\frac{1}{2}+\frac{3}{4}=\frac{2}{4}+\frac{3}{4}=\frac{5}{4}$ <br> Recognise mixed number fractions and improper fractions and convert from one to the other and write mathematical statements e.g. $2 / 5+4 / 5=6 / 5=11 / 5$ | Add fractions with different denominators and mixed numbers, using the concept of equivalent fractions. <br> Start with fractions where the denominator of one fraction is a multiple of the other (e.g. $1 / 2+1 / 8$ $=5 / 8$ ) and progress to varied and increasingly complex problems Practice calculations with simple fractions and decimal equivalents to aid fluency |
|  | Add numbers with up 423 <br> to three digits, using $+\frac{88}{511}$ <br> formal written  <br> methods of columnar <br> addition with <br> regrouping to carry.  |   <br> Add numbers with up 2458 <br> to 4 digits using the $+\frac{596}{3054}$ <br> formal written  <br> methods of columnar <br> addition where  <br> appropriate.  |   <br> Add whole numbers  <br> with more than 4 23454 <br> digits, including using +24050 <br> formal written <br> methods (columnar <br> addition).  | Solve addition multi-step problems in contexts, deciding which operations and methods to use and why |

## Calculation Policy- Addition



