|  |  |  | Addition |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Written Methods | Read, write and interpret mathematical statements involving addition ( + ), subtraction (-) and equals (=) signs | Add and subtract two two-digit numbers using concrete objects, pictorial representations progressing to formal written methods $\begin{array}{r} 46 \\ +27 \\ \hline \frac{73}{1} \end{array}$ | Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction $\begin{array}{r} 423 \\ +\quad 88 \\ \hline \frac{511}{11} \end{array}$ | Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition where appropriate $\begin{array}{r} 2458 \\ +\quad 596 \\ \hline 3054 \\ \hline 111 \end{array}$ | Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <br> 23454 | Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why |
| Developing conceptual understanding | Use bonds of 10 to calculate bonds of 20 <br> 0000010000 <br> Count all <br> Count on <br> Count on, on number track, in 1 s | Number track / Number line - jumps of 1 then efficient jumps using number bonds $18+5=23$ <br> $46+27=73$ Count in tens then bridge <br> $25+29$ by +30 then -1 <br> (Round and adjust) | Number line: $264+158$ efficient jumps <br> $40+80=120$ using $4+8=12$ <br> So $400+800=1200$ <br> $243+198$ <br> by +200 then -2 <br> (Round and adjust) <br> Pairs that make 100 <br> $23+77$ <br> Place value counters, $100 \mathrm{~s}, 10 \mathrm{~s}$, 1 s $264+158$ <br> (Also with $£, 10$ p and 1 p ) |  | $\begin{array}{r} 596 \\ +\quad 24050 \\ \hline 1 \end{array}$ |  |
| With jottings <br> ... or in your head | Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=-9$ | Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> * a two-digit number and ones <br> * a two-digit number and tens <br> * two two-digit numbers <br> * adding three one-digit numbers | Add and subtract numbers mentally, including: <br> * a three-digit number and ones <br> * a three-digit number and tens <br> * a three-digit number and hundreds | Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why | Add and subtract numbers mentally with increasingly large numbers | Perform mental calculations, including with mixed operations and large numbers |
| Just know it! | Represent \& use number bonds and related subtraction facts within 20 Add and subtract one-digit and twodigit numbers to 20 , including zero | Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 |  |  |  |  |
| Year | 1 | 2 | 3 | 4 | 5 | 6 |
| Foundations | 1 more | 10 more Number bonds: 20, 12, 13 | Add multiples of 10,100 | Add multiples of $10 \mathrm{~s}, 100 \mathrm{~s}, 1000$ s | Add multiples of 10s, 100s, 1000s, tenths, | Add multiples of $10 \mathrm{~s}, 100 \mathrm{~s}$, 1000 s, tenths, hundredths |
|  | Number bonds: 5, 6 | Number bonds: 14,15 Add 1 digit to 2 digit by bridging | Add single digit bridging through boundaries | Fluency of 2 digit +2 digit | Fluency of 2 digit +2 digit including with decimals | Fluency of 2 digit + 2 digit including with decimals |
|  | Largest number first Number bonds: 7, 8 | Partition second number, add tens then ones | Partition second number to add Pairs of 100 | Partition second number to add Decimal pairs of 10 and 1 | Partition second number to add | Partition second number to add |
|  | Add 10. <br> Number bonds: 9, 10 | Add 10 and multiples. Number bonds: 16 and 17 | Use near doubles to add | Use near doubles to add | Use number facts, bridging and place value | Use number facts, bridging and place value |
|  | Ten plus ones. Doubles up to 10 | Doubles up to 20 and multiples of 5 Add near multiples of 10 . | Add near multiples of 10 and 100 by rounding and adjusting | Adjust both numbers before adding Add near multiples | Adjust numbers to add | Adjust numbers to add |
|  | Use number bonds of 10 to derive bonds of 11 | Number bonds: 18, 19 Partition and recombine | Partition and recombine | Partition and recombine | Partition and recombine | Partition and recombine |



