## Addition Calculation Policy



| ADDITION YEAR 2 | Key Vocabulary: add, addition, more, plus, make, sum, total, altogether, equal to, same as, part part whole, count on, partition, regroup, exchange, columns, tens, ones |  |  |
| :---: | :---: | :---: | :---: |
| Adding 1-digit numbers that cross 10 <br> When adding one digit numbers that cross 10 , it is important to highlight the importance of ten ones equalling one ten. Different manipulatives can be used to represent this exchange <br> Use concrete resources alongside number lines to support children in understanding how to partition their jumps. | Use diens/number line - "stop and swap" $8+7=15$  $\left(\begin{array}{c} 8+7=15 \\ 2 \end{array}\right.$ | Draw a number line to support the calculation $8+7$ <br> Leading to: | $\begin{aligned} 8+7= & 8+2=10 \\ & 10+5=15 \end{aligned}$ |
| Adding 2-digit numbers and ones <br> When adding single digits to a two-digit number, children should be taught to count on from the larger number. <br> They should also apply their knowledge of number bonds to add more efficiently. | $38+5$ <br> Continue to reinforce the importance of ten ones equalling one ten using manipulatives to represent the exhange. | Children to represent the concrete using symbols e.g. dots for ones and lines for tens. <br> Use the blank number line and bridging 10 method <br> *for those who require, second jumps can be in ones | $\begin{gathered} 38+5= \\ 38+2=40 \\ 40+3=43 \end{gathered}$ |

Adding 2-digit numbers

| Adding three 1-digit numbers <br> When adding three 1-digit numbers, children should be encouraged to look for number bonds to 10 or doubles to add the numbers more efficiently. | $3+6+7=16$ |  |  | Children to represent the conc dots for ones and lines for tens. | ing symbols e.g. | $\frac{7+6+3=16}{10}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ADDITION: YEAR 2/3 |  |  |  |  |  |  |
| Rounding and adjusting (when adding near multiples of 10) |  |  |  | $36+9$ |  | $\begin{gathered} 36+9= \\ 36+10=46 \\ 46-1=45 \end{gathered}$ |
| ADDITION: YEAR 3 | Key Vocabula method, colu | add, additio method | plus, make, sum, tota | ether, count on, equal to, same | ones, hundred | regroup, exchange, expanded |
| Skill | Concrete |  |  | Pictorial |  | Abstract |
| Add numbers with up to three digits (no regrouping) <br> Base 10 are the most effective manipulatives when adding numbers with up to three digits. <br> Ensure children write out their calculation alongside any concrete resources so they can see the links to the written column method | $125+43$ <br> Place value g <br> Add togethe | o regroupin ones, then | , then hundreds | Children to represent the conc square for hundered, lines for | ing symbols e.g. d dots for ones. | Expanded column method$100+20+5$ <br> $40+3$$100+60+8=168$ |



| ADDITION: YEAR 5/6 | Key Vocabulary: add, addition, more, plus, make, sum, total, altogether, count on, equal to, same as, tens, ones, hundreds, thousands, ten thousands, hundred thousands, millions, tenths, hundredths, thousandths, decimal point, decimal place |  |  |
| :---: | :---: | :---: | :---: |
| Skill | Concrete | Pictorial | Abstract |
| Add numbers with more than four digits Place value counters are the most effective concrete resource to use when adding numbers with more than 4 digits. | As Year 4 'Add numbers with up to four digits'. <br> Place value chart to include: HTh, TTh, Th, h, T, O <br> At this stage, children should be encouraged to work in the abstract, using the column method to add larger numbers efficiently. |  |  |
| Add with up to 3 decimal places <br> Place value counters on a place value grid are the most effective manipulatives when adding decimals. However, at this stage, children should be encouraged to work in the abstract. <br> Ensure children have experience of adding decimals with a variety of decimal places. This includes putting this into context when adding money and other measures. | $3.65+2.41=6.06$ <br> (1) $27.5+6.28=33.78$  | Place value charts can be drawn in books with circles to represent counters. <br> Number lines can also be used to support decimal calculation: | Formal column method $\begin{array}{r} 3.65 \\ +2.41 \\ \hline 6.06 \\ \hline 1 \end{array}$ <br> Teach children to use 0 as a place holder where required $\begin{array}{r} 27.50 \\ +\quad 6.28 \\ \hline 33.78 \\ \hline 1 \end{array}$ |

