## Iatham Fells CE (VC) Primary Calculation Policy Appendix A

We derive our policy from our Mission Statement 'Roots to Grow, Wings to Fly, Faith to Flourish'. We encourage children to build skills and develop the confidence to use them independently. We use the Mathematics scheme INSPIRE throughout the school with Numicon used in the early years. We encourage concrete methods to be used by children to gain confidence throughout the school.

| Stage 1 <br> Pupils use concrete objects and pictorial representations | Stage 1 <br> Pupils use concrete objects and pictorial representations. |
| :---: | :---: |
| Stage 2 <br> Using number lines to count in ones $13+5=18$ | Stage 2 <br> Using number lines to count back in ones. $13-5=8$ |
| Stage 3 <br> efficient jumps (can also jump in 10/1s) $47+35=82$ | Stage 3 <br> efficient jumps (can also jump in 10/1s) <br> Taking away $84-36=48$ |
| Stage 4 <br> Partitioning <br> (without number line/ <br> pictorial representation) <br> $35+47=82$  <br> Progress to:  <br> $30+40+5+7$ 35 <br> $70+12=82$ $\frac{+47}{12}$ <br>  $+\frac{70}{82}$  | Stage 4 <br> Subtracting by adding (counting up from the smaller number to the larger) $436-389=47$ |
| Stage 5 <br> Formal method showing numbers carried underneath |  |


| Stage 1 <br> Pupils use concrete objects and pictorial representations <br> How many socks in three pairs? <br> 5 5ifor II II II | Stage 1 <br> Pupils use concrete objects and pictorial representations <br> 6 cakes are shared between 3 people. How many cakes does each person get? |
| :---: | :---: |
| Stage 2 <br> Arrays and repeated addition $6 \times 4$ or $4 \times 6$ <br> There are four apples in each box. How many apples in six boxes? <br> MM0 |  |
|  | Stage 3 <br> Using known multiplication facts $96 \div 4=24$ |
|  | Stage 4 <br> Multiples of the divisor $\begin{array}{lc} \begin{array}{l} 98 \div 7=14 \\ \text { Progress to } \\ 10 \times 7 \end{array} & \\ 4 \times 70 & =28 \end{array} \quad 7 \begin{aligned} & 9 \\ & 4 \times 7 \end{aligned}$ |
| Stage 5 <br> Formal method of multiplication Progress to short multiplication $\begin{array}{llll}  \\ \times & 3 & 4 & 2 \\ \times & & & 7 \\ \hline 2 & \mathbf{2} & 9 & 4 \\ \hline 2 & 2 & 1 & \\ \hline \end{array}$ | Stage 5 <br> $432 \div 5=86 r 2$ <br> (estimate: $400 \div 5=80$ ) <br> Divide numbers up to 4 digits and decimals with 2 decimal places. |
| Stage 6 <br> Formal Method of long multiplication $124 \times 26$ $\begin{array}{r} 124 \\ \times 26 \\ \hline 744 \\ 2480 \\ \hline 3224 \\ \hline 11 \end{array}$ | Stage 6 <br> Formal Method of long division <br> $432 \div 15$ $\begin{gathered} \\ \hline 15 \\ \hline 432.0 \\ \hline 30 \\ \hline 132 \\ 120 \\ \hline 120 \\ \hline 120 \\ \hline \end{gathered}$ |

