## Wendover CE Junior School

Wendover CE Junior School Calculation Policy
Addition


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Subtraction


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Multiplication

| Concrete | Pictorial | Abstract |
| :---: | :---: | :---: |
| Use arrays to illustrate commutativity. Counters and other objects can also be used. $2 \times 5=5 \times 2$ <br> 2 lots of 5 <br> 5 lots of 2 <br> Number lines to show repeated groups. $3 \times 4=12$ | Children to represent the arrays pictorially. <br> Represent this pictorially alongside number line. | Children to be able to use an array to write a range of calculations e.g. $\begin{aligned} & 10=2 \times 5 \\ & 5 \times 2=10 \\ & 2+2+2+2+2=10 \\ & 10=5+5 \end{aligned}$ <br> Children to be encouraged to show the steps they have taken. $\begin{array}{r} 4 \times 15 \\ 105 \\ 10 \times 4=40 \\ 5 \times 4=20 \\ 40+20=60 \end{array}$ <br> A number line can also be used |
| Formal column method with place value counters (base 10 can also be used). $3 \times 23=69$ | Children to represent the counters pictorially. | Formal written method <br> Expanded Method <br> Compact Method |

Division


## Wendover CE Junior School

## Long Division

| 1000s | 100s | 10s | 1 s | We can't group 2 thousands into groups of 12 so will exchange them. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\bigcirc \theta$ | $\theta^{-000}$ | 0000 | 0000 |  |  |
| 1000s | 100s | 10s | Is |  |  |
|  |  | -10) | णणतర | We can group 24 hundreds into groups of 12 which leaves with 1 hundred. | $\begin{gathered} 1 2 \longdiv { 2 5 4 4 } \\ \frac{24}{1} \end{gathered}$ |



After exchanging the hundred, we
have 14 tens. We can group 12 tens into a group of 12 , which leaves 2 tens.

$$
\begin{array}{r}
1 2 \longdiv { 0 2 1 } \\
\begin{array}{r}
24 \\
\hline 14 \\
12 \\
\hline 2
\end{array}
\end{array}
$$

| 1000s | 100s | 10s | 1s |
| :---: | :---: | :---: | :---: |
|  |  | $908$ |  |

After exchanging the 2 tens, we
have 24 ones. We can group 24 ones


| into 2 group of 12 , which leaves no remainder. | 14 <br> 12 |
| :--- | :--- |
| 24 |  |

