

\begin{tabular}{|c|c|c|c|}
\hline Skill \& Concrete \& Pictorial \& Abstract \\
\hline \begin{tabular}{l}
Begin to use the language 'times' and introduce the ' \(x\) ' symbol \\
Solve multiplication problems with practical equipment, pictures or arrays with support.
\end{tabular} \& \begin{tabular}{l}
Recognise that \(2+2+2+2\) can be written as \(4 \times 2\) \\
\(4 \times 10=\) \\
4 lots of 10 \\
4 groups of 10 \\
4 times 10
\end{tabular} \& \[
x^{4}=8
\]

$$
\times 2=
$$

$\times 2=$ $6 \times$ \&  \\
\hline
\end{tabular}

| Skill | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| Recognise and use $x$ symbol. E.g. Solve multiplication problems (involving $2 x, 5 x$ and $10 x$ facts) using arrays or Numicon to support understanding. <br> Use a range of tools and resources to solve multiplication as repeated addition e.g. $5 \times 3$ <br> Know $3 \times$ tables | Use a marked number line or Cuisenaire rods | To understand that $2 \times 5=5 \times 2$ (Commutativity) <br> Use an empty number line or an array to represent multiplication as repeated addition e.g. $4 \times 2,3 \times 4$ | Use a marked number line to solve multiplication problems (involving $2 x$, $5 x$ and $10 x$ facts) as repeated addition e.g. $6 \times 5$ |




| Skill <br> Pupil recalls and uses multiplication facts for the 3,4 and 8 multiplication tables. | Concrete | Pictorial |  |  |  |  |  |  |  |  |  |  | Abstract |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Use multiplication table |  |  |  |  |  |  |  |  |  |  | Know and use the fact that $4 x$ table is double $2 x$ table <br> Know and use the fact that $8 x$ table is double $4 x$ table <br> e.g. Write the missing number in the empty box to make these calculations correct: e.g. $\begin{aligned} & {[] \times 3=36} \\ & 8 \times[]=24 \\ & 5 \times 8=[] \times 10 \\ & {[]=8 \times 7} \\ & {[] \times[]=24} \end{aligned}$ |
|  |  | $\times$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
| Pupil understands that division is the inverse of multiplication and vice versa. <br> (c.f. Division policy) <br> Pupil solves problems, including missing number problems, involving multiplication |  | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
|  |  | 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |  |
|  |  | 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |  |
|  |  | 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |  |
|  |  | 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |  |
|  |  | 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |  |
|  |  | 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |  |
|  |  | 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |  |
|  |  | 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |  |
|  |  | 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| Skill | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
|  |  |  | e.g. |
| to double any number, in- |  |  | Double 264: |
| cluding decimals to one |  |  | - Double $200=400$ |
| decimal place. |  |  | - Double 60=120 |
|  |  |  | - Double $4=8$ |
|  |  |  | $\overline{528}$ |
|  |  |  | Double 6.9 |
|  |  |  | - Double 6=12 |
|  |  |  | - Double $0.9=1.8$ |
|  |  |  | - $\overline{13.8}$ |

