| MULTIPLICATION GUIDELINES |  |  |
| :---: | :---: | :---: |
| Year One | Year Two | Year Three |
| Solve one-step problems by calculating the answer using concrete objects, pictorial representations and arrays <br> Arrays <br> (3 lots of 2) <br> Repeated addition $\begin{aligned} & 3 \times 2 \\ & 2+2+2 \end{aligned}$ <br> Practical resources <br> Counting in $2 s$ e.g. counting socks... <br> Counting in 5 s e.g. counting fingers... <br> Counting in 10 s e.g. toes... <br> Pictures / marks <br> There are 3 sweets in one bag. <br> How many sweets are there in 5 bags? | Show that multiplication of 2 numbers can be done in any order (commutative) $\begin{array}{lr} \begin{array}{lr} x=\text { signs and missing numbers } \\ 7 \times 2=\square & \square=2 \times 7 \\ 7 \times \square=14 & 14=\square \times 7 \\ \square \times 2=14 & 14=2 \times \square \\ \square x \nabla=14 & 14=\square \times \nabla \end{array}, l \end{array}$ <br> Arrays <br> (4 lots of 2) <br> $4 \times 2$ <br> $2 \times 4$ <br> (2 lots of 4) <br> Repeated addition $\begin{aligned} & 4 \times 2= \\ & 2+2+2+2 \end{aligned}$ | Write and calculate mathematical statements using the multiplication tables that they know, including for twodigit numbers times one-digit numbers, using mental and progressing to formal written methods <br> Partitioning $\begin{aligned} & 23 \times 3=69 \\ & 20 \times 3=60 \\ & 3 \times 3=9 \\ & \text { (place value key) } \end{aligned}$ <br> Column multiplication <br> Columns should be labelled and multiplication sign is on RHS. $\begin{aligned} & \text { TU } \\ & 32 \\ & \frac{3}{96} x \end{aligned}$ |


|  | Number line $3 \times 2=$ |  |
| :---: | :---: | :---: |
| Mental calculations | Mental calculations | Mental calculations |
| Times table expectations $\begin{aligned} & \text { X2 } \\ & x 5 \\ & x 10 \end{aligned}$ | Times table expectations (with related division facts) $\begin{aligned} & \text { X2 } \\ & \text { x5 } \\ & \times 10 \end{aligned}$ <br> Odd/even numbers <br> Count in $2 s$ to identify odd and even numbers | Times table expectations (with related inverse facts) $\begin{aligned} & \text { X3 } \\ & \times 4 \\ & \times 8 \end{aligned}$ <br> Place Value <br> $\times 2$ digit numbers by 10 and 100 |

