|  | YR | Count repeated groups of the same size (1s / 2s / $5 \mathrm{~s} / 10 \mathrm{~s}$ ) <br> ref Overview of learning 5 | Practical / recorded <br> using ICT (eg digital <br> photos / pictures on <br> IWB) 3 | Pictures / Objects <br> 3 plates, 2 cakes on each plate: |  |  |  |  | Symbol <br> 3 plates, | plate: | Counting on in 1s and 2s | (see recording) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Y1 | Solve (practical) problems that involve combining groups of 2,5 or 10 | Practical / recorded <br> using ICT$\quad$Pi <br>  <br>  <br>  <br>  <br>  <br>  <br>  | Pictures / Symbols <br> There are three sweets in one bag. <br> How many sweets are there in five bags? |  | Number tracks / Number line (modelled using bead strings) <br> $2 \times 3$ or $3 \times 2$ <br> [two, three times] or [three groups of two] $\bigcirc$ |  |  |  |  | Count on / back in 1s, 2s, 5 s and 10 s <br> Doubles of numbers to 10 | (see recording) |
|  | Y2 | Multiplication as repeated addition and arrays | Pictures / Symbols <br> There are four apples in each box. <br> How many apples in six boxes |  |  |  |  |  | Also $14 \times 2$ as ( $10 \times 2$ and $4 \times 2$ ) |  | Count in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s Derive multiples of 2,5 \& 10 <br> Relate to x facts (and derive related $\div$ facts) <br> Doubles of numbers to 20 | Doubles of TO numbers |
|  | Y3 | $\begin{gathered} \mathrm{TO} \times \mathrm{O} \\ (\mathrm{eg} 13 \times 4) \end{gathered}$ |  |  |  | Compact grid method $13 \times 4$ |  |  | Partitioning (possible us <br> $13 \times 4=52$ <br> $10 \times 4=40$ <br> $3 \times 4=12$ |  | Derive / recall 2, 3, 4, 5, 6 and 10 times tables (Derive related division facts) <br> Recognise multiples of 2 , 5 and 10 up to 1000 | O/TO × $10 / 100$ (describe the effect) <br> Doubles of TO / HTO numbers |
|  | Y4 | Record, support and explain: <br> TO x O <br> (eg $16 \times 8 ; 43 \times 6$ ) | $\begin{aligned} & \text { Partitioning } \\ & \begin{array}{l} 43 \times 6 \\ \text { (estimate: } 40 \times 6=240 \text { ) } \\ 40 \times 6=240 \\ 3 \times 6=18 \end{array} \end{aligned}$ | $\begin{aligned} & \text { Compact grid method } \\ & 43 \times 6 \\ & \begin{array}{\|c\|c\|c\|} \hline \times & 40 & 3 \\ \hline 6 & 240 & 18 \\ \text { [ret Multiplication grid ITP] } \end{array} \end{aligned}$ |  |  |  | Expanded vertical$\begin{array}{r} 43 \\ \times \quad 6 \\ \hline 18 \\ \hline 240 \\ \hline 258 \end{array}(40 \times 6)$ |  | Comp | Derive / recall facts to 10 $\times 10$ <br> Multiples of numbers to 10 up to the $10^{\text {th }}$ multiple | Numbers up to $1000 \times 10$ / 100 <br> (whole number answers and understand the effect) <br> Doubles of TO / HTO numbers and multiples of 10/100 |
|  | Y5 | Refine and use efficient methods: $\begin{aligned} & \text { HTO } \times \mathrm{O} \\ & \text { TO } \times \text { TO } \\ & \text { O.t } \times \mathrm{O} \end{aligned}$ | Expanded vertical Compact vertical <br> $237 \times 4$  <br> (estimate: $250 \times 4=1000$ ) $4.7 \times 8$ <br> 237 (estimate: $5 \times 8=40$ ) <br> $\times \frac{4}{28}$ 4.7 <br> 120 $\times \frac{8}{37.6}$ <br> $\frac{800}{948}$  |  |  |  |  |  | *Carry up |  | Recall quickly facts to 10 $\times 10$ <br> Use facts to multiply pairs of multiples of 10 / 100 <br> Use known facts to derive other facts [Find common multiples of two numbers] | TO $\times \mathrm{O}(\mathrm{eg} 12 \times 9)$ <br> TO $\times$ TO (eg $16 \times 25$ ) <br> Doubles of 0.t / O.th <br> Multiply whole numbers / decimals by 10 / 100 / 1000 |
|  | Y6 | Use efficient methods: $\begin{gathered} \text { Integer } \times \mathrm{O}(\text { eg } 2307 \times 8) \\ \text { Decimal } \times \text { O }(\mathrm{eg} 31.6 \times 7) \\ \text { HTO TO } \\ \text { HTO } \times \text { TO } \end{gathered}$ |  |  |  |  |  |  |  |  | Use facts up to $10 \times 10$ to derive facts involving multiples of 10 / 100 (eg $80 \times 30$ ) and decimals (eg $0.8 \times 7$ ) <br> Derive squares of numbers to $12 \times 12$ Derive corresponding squares of multiples of 10 | $\begin{aligned} & \text { TO } \times \mathrm{O} \\ & \text { O.t } \times \mathrm{O} \\ & \text { Integer } \times 1000 / 100 / 10 / \\ & 0.1 / 0.01 \end{aligned}$ |

