| Number Bonds to | Number Bonds to | Doubles and Halves | 3, 4 and 8 times | Multiplying by 10 |
| :---: | :---: | :---: | :---: | :---: |
| 100 (Know fluently) | 100 (multiples of 5) | to 100 | tables | The digits shift one place to |
| (4r $2=$ number bonds to 20 and $y_{r} 4=$ number bonds to 100$)$ | ( V 2 = multiples of 10 to 100 ) E.g. |  | ( $\mathrm{Yr} 2=2,5$ and 10 times tables, and $\mathrm{Yr} 4=7,8$ and 9 times tables) | the left and 0 fills the empty |
| E.g. | $100+0=100$ AND 100-0 $=100$ | Double 1 $=2$ AND Half of 2 = 1 |  | column |
| $50+0=50$ | $95+5=100 \quad 100-5=95$ | Double $2=4$ Half of $4=2$ | $0 \times 3=0$ AND $0 \div 3=0$ |  |
| $49+1=50$ | $90+10=100 \quad 100-10=90$ |  | $1 \times 3=3 \quad 3 \div 3=1$ | $24 \times 10=240$ |
| $\begin{aligned} & 100+0=100 \\ & 49+51=100 \end{aligned}$ |  | Double $25=50$ Half of $50=25$ Double $42=84$ Half of $84=42$ | $2 \times 3=6 \quad 6 \div 3=2$ | When 24 in multiplied by 10 , |
| $49+51=100$ $100-99=1 \quad 50-49=1$ | $\begin{array}{ll} 5+95=100 & 100-95=5 \\ 0+100=100 & 100-100=0 \end{array}$ |  | $\begin{array}{ll} 11 \times 3=33 & 33 \div 3=11 \\ 12 \times 3=36 & 36 \div 3=12 \end{array}$ | the 2 tens become 2 hundreds, the 4 units become 4 tens and there are 0 units |
| Say and read numbers to 1000 |  | Mental Maths |  | Dividing by 10 |
|  |  |  |  | The digits shift one place to |
| $240 \quad 261$ | 1000 |  |  | the right |
| Count on and back in 10's from any 2 or 3 digit number |  | Year 3 |  |  |
|  |  | Commutative Law |
|  |  |  | Remember <br> $10 \times 2=2 \times 10$ (multiplication) |  |
|  |  |  |  |  |  |
| $64,74,84,94,104,114 . .114,104,94,84,74,64 .$.276, 286, 296, 306, $316 . .316,306,296,286,276 .$. |  | digit numbers | (You can swap the numbers over and still get the same answer.) BUT |  |
| Count on and back in 100's from any 2 or |  | E.9. $23=2$ tens and 3 units |  |  |
|  |  | $\begin{aligned} & 23=2 \text { tens and } 3 \text { units } \\ & =20+3 \end{aligned}$ | $10 \div 2 \neq 2 \div 10$ |  |
| 3 digit number |  | $346=3$ hundreds, 4 tens and 6 | 10-2 $\ddagger 2-10$ |  |
| E.g. <br> 32, 132, 232, 332, 432, 432, 332,232, 132, 32 |  | units | (If you swap the numbers round, you DO NOT get the same answer) |  |
| 32, 132, 232, 332, 432... 432, 332, 232, 132, 32. $476,576,676,776 \ldots 776,676,576,476 \ldots$ |  | $=300+40+6$ | Inverses |  |
|  |  | 2457 = 2 thousand, 4 hundreds, 5 | Multiplication is the inverse of Division |  |
|  |  | tens, 7 units | $5 \times 2=10$ so swapping the numbers gives you $10 \div 2=5$ and $10 \div 5=$ 2 |  |
|  |  |  |  |  |
|  |  | $=2000+400+50+7$ | Addition is the inverse of Subtraction |  |
|  |  |  | $6+4=10$ so swapping the numbers qives you $10-4=6$ and $10-6=4$ |  |

