## Developing fluency with times tables

Don't practise until they get it right... practise until they can't get it wrong!


| $\mathbf{x}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ | $\mathbf{1 1}$ | $\mathbf{1 2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{0}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\mathbf{1}$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| $\mathbf{2}$ | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| $\mathbf{3}$ | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| $\mathbf{4}$ | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| $\mathbf{5}$ | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| $\mathbf{6}$ | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| $\mathbf{7}$ | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |
| $\mathbf{8}$ | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |
| $\mathbf{9}$ | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 |
| $\mathbf{1 0}$ | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| $\mathbf{1 1}$ | 0 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |
| $\mathbf{1 2}$ | 0 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |


| $\mathbf{1 0 x}$ <br> Move one place <br> value bigger and use <br> zero as a place <br> holder. Doubles, even numbers <br> Partition, double and <br> recombine for larger <br> factors. | The ones' value is 5 or 0 . <br> Multiply by ten and halve for larger factors. | $4 \times$ <br> Double and double again. | 0 x <br> Anything multiplied by zero is zero. | $1 \times$ <br> The other factor stays the same. |
| :---: | :---: | :---: | :---: | :---: |
| $3 x$ and $6 x_{r}$ <br> All multiples of 3 have a digital root of 3,6 or 9 e.g. 27 is a multiple of 3 because $2+7$ is 9 . <br> Even multiples of 3 are also multiples of 6 . <br> 8 x <br> Double, double and double again to multiply large numbers by 8 . <br> Or <br> Multiply by 10 and subtract 2 groups. | 9 x <br> Repeated addition pattern: add ten then subtract one. <br> Multiply by ten then subtract one group. <br> The digital root is always 9. Learn the finger trick. | 11 x <br> Repeated addition: add a ten and a one. <br> Multiply: multiply by ten then add one group. | $12 \times$ or more <br> Partition and multiply then recombine. | It is helpful to learn some 'tricky' facts by heart using mnemonics. <br> e.g. <br> 8 and 8 are sick on the floor $\begin{aligned} & (8 \times 8=64) \\ & 7 \times 7=49, \end{aligned}$ <br> one short of 50 all the time $56=7 \times 8$ <br> (consecutive numbers) |

