MULTIPLICATION

Tips for multiplying:

- Every time we learn to multiply, we should refer to it as the inverse of division.

- Therefore, when we learn multiplication facts we should also learn the division. E.g. $3 \times 2 = 6$ $2 \times 3 = 6$ $6 \div 3 = 2$ $6 \div 2 = 3$

- Understand the value of thousands, hundreds, tens and ones.

- Divide by 10, 100 and 100 using your place value.

Resources I can use to help:

Use cereal as counters, numicon, look for arrays in every day life, dienes, hundred squares, draw dots (ones) and lines (tens) to represent the numbers, practice reciting the multiples.
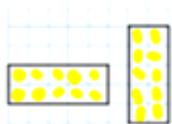
Multiplication Stages

- Arrays
- Repeated Addition
- Grid Method
- Column
- Long Multiplication

Methods your children will learn...

1 Arrays

$3 \times 4 = 12$

Children to draw the arrays

2 Repeated Addition

$3 \times 4 = 12$

0   4   8   12
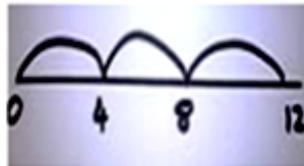
3 Grid

X	50	8
3	$50 \times 3 = 150$?	$8 \times 3 = 24$?

$150 + 24 = 174$

4 Column

$6 \times 23 =$

$$\begin{array}{r} 23 \\ \times\ 6 \\ \hline 138 \\ {\scriptstyle 1\ 1} \end{array}$$

5 Long Multiplication

$$\begin{array}{r} 1\ 2\ 4 \\ \times\quad 2\ 6 \\ \hline 7\ 4\ 4 \\ {\scriptstyle 1\quad 2} \\ 2\ 4\ 8\ 0 \\ \hline 3\ 2\ 2\ 4 \\ {\scriptstyle 1\quad 1} \end{array}$$

Answer: 3224