## Year1

## Addition

addend + addend = sum

| Concrete | Pictorial | Abstract |
| :---: | :---: | :---: |
| Combining two parts to make a whole (use other resources too e.g. eggs, shells, teddy bears etc) |  | $4+3=7$ (four is a part, 3 is a part and the whole is seven) |
| Counting on using number lines by using cubes or numicon | A bar model which encourages the children to count on <br> ? | The abstract number line: <br> What is 2 more than 4 ? What is the sum of 4 and 4 ? What's the total of 4 and 2? $4+2$ |
| Regrouping to make 10 by using ten frames and counters/cubes or using numicon: $6+5$ | Children to draw the ten frame and counters/cubes | Children to develop an understanding of equality e.g $6+\square=11$ and $6+5=5+\square \quad 6+5=\square+4$ |

## Year1 <br> Minuend - subtrahend $=$ difference




## Year1

> Multiplication
> multiplier $\times$ multiplicand $=$ product
> $2 \times 10=20$

2 times 10
2 groups of 10, 2 lots of 10
10, two times

$10 \times 2=20$
10 times 2
10 groups of 2,10 lots of 2
2 , ten times

| $2+2+2+2+2+2+2+2+2+2$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - | - | - | - | - | annnnannanan <br> 02468101214161820 |  |
| - | - | - | - | - |  |  |

$$
\begin{gathered}
\text { Year1 } \\
\text { Division } \\
\text { dividend } \div \text { divisor }=\text { quotient }
\end{gathered}
$$

| Sharing $10 \div 2=5$ <br> 10 shared between 2 | There are 10 cakes to be shared between 2 children．How many cakes each？ <br> There are 2 groups． There are 5 in each group． |
| :---: | :---: |
| Grouping $10 \div 2=5$ <br> How many groups of 2 make 10？ Put 10 into groups of 2. | There are 10 cakes to be put into boxes，with 2 cakes in each box． <br> How many boxes are needed？ $\begin{gathered} 5 \times 2=10 \\ s \sigma \\ 10 \div 2=5 \\ -2-2-2-2 \\ \text { nnn⿴⿱冂一⿰丨丨八又} \\ 0246810 \end{gathered}$ <br> There are 5 groups． <br> There are 2 in each group． |

