## Addition

Reception
Year 1

## Year 2

Combining two parts to make a whole (use other resources too eg. eggs, shells, teddy bears, cars).

Counting on using number lines using cubes or Numicon.


TO + TO using base 10. Continue to develop understanding of partitioning and place value. $36+25$


Ensure you are carrying at the bottom of the sum for addition.

## Subtraction



Counting back (using number lines or number tracks) children start with 6 and count back 2 .

Ensure you are carrying UNDER the line to show a clear difference between addition and subtraction.


## Multiplication

## Reception

## Year 2

Can show answers
on a number line counting up in the jumps.

Year 2

Can show answers on a number line counting up in the jumps.


## Multiplication

Year 3- use
of partitioning to multiply

## Year 3-

developing the use of partitioning to multiply. Beginning to show that knowledge in short multiplication

Children to be encouraged to show the steps they have taken.
$4 \times 15$
+7
$10 \quad 5$
$10 \times 4=40$
$5 \times 4=20$
$40 \cdot 20=60$
A number line can also be used

$\downarrow$
Children to record what it is they are doing to show understanding.
$3 \times 23 \quad 3 \times 20=60$
$\begin{array}{ll}\text { / } \\ 20 & 3 \times 3=9 \\ 3 & 60+9=69\end{array}$
23
$\begin{array}{r}\mathbf{2 3} \\ \times \quad 3 \\ \hline 69\end{array}$


## Year 5 -

developing short multiplication (including multiplying a decimal number) and then moving onto long multiplication for multiplying by a 2 digit number.


## Division

## Reception



## $\sqrt{5}$

Using repeated addition on a number line to divide. This is will reinforce the relationship between division and multiplication.
$6 \div 2$


3 groups of 2

Year 2-
when secure in separating into groups.

Using repeated addition on a number line to divide larger numbers and moving onto giving answers with remainder. They could also use times table number facts using repeated addition on a number line
$9 \div 4=2^{r} 1$


## Division

Years 3\&4
begin with no remainders, and then developing to remainders when secure on method.

## Year 5-

developing to show remainders for short division as decimals or fractions.

Children to the calculation using the short division scaffold.

$$
{ }_{5} \frac{123}{61^{15}}
$$

Short division: moving onto show answers as decimals or fractions and not just as a remainder.
$142 \div 4=35 \cdot 5$

4) $14^{2} 2 \cdot{ }^{2} 0$
$432 \div 15$ becomes


