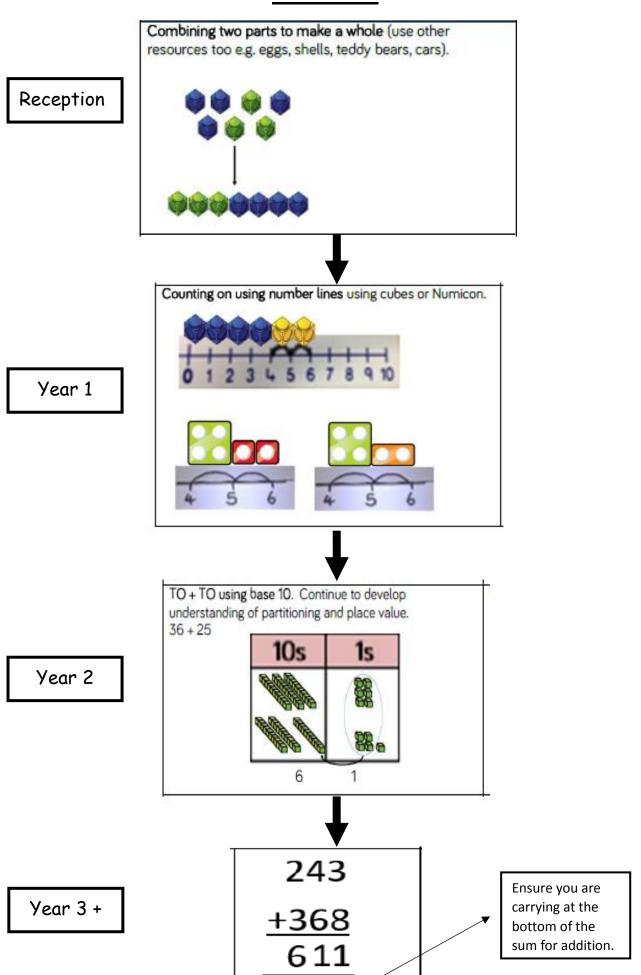
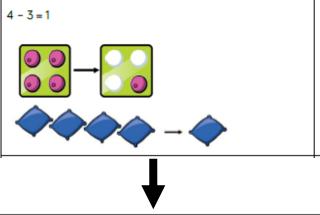
Addition



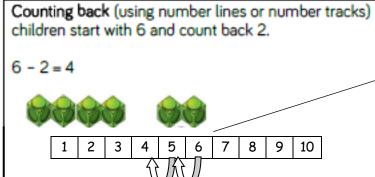
Subtraction

Physically taking away and removing objects from a whole (ten frames, Numicon, cubes and other items such as beanbags could be used).

Reception



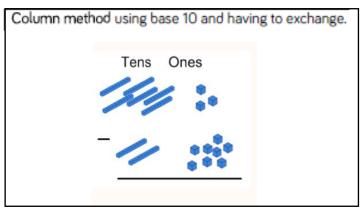
Year 1



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

Year 2

Year 3 +





Formal colum method. Children must understand what has happened when they have crossed out digits.

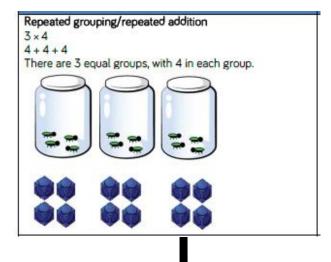
234

<u>- 88</u>

6

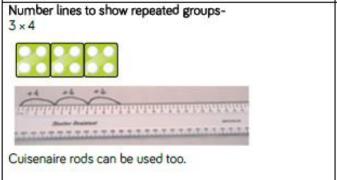
Multiplication

Reception





Year 1





Year 2

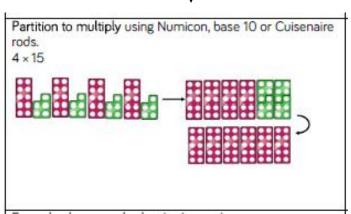
Can show answers on a number line counting up in the jumps.





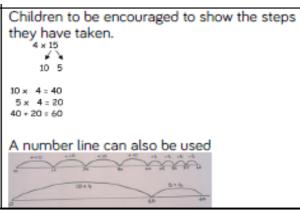
Year 2

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



Multiplication

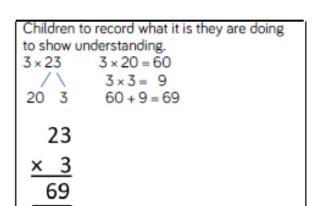
Year 3- use of partitioning to multiply





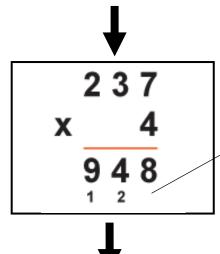
Year 3-

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



Year 4 -

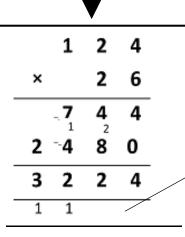
introduction of short multiplication. multiplying up to 4 digits by a one-digit number. Can move onto long multiplication to multiply by a 2- digit if children are ready.



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

Year 5 -

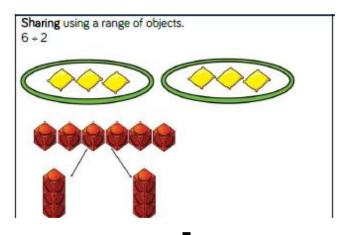
developing short
multiplication
(including multiplying
a decimal number)
and then moving onto
long multiplication
for multiplying by a
2 digit number.



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

Division

Reception



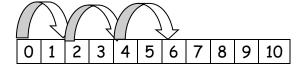


Year 1-

when secure in separating into groups.

Using **repeated addition** on a number line to divide. This is will reinforce the relationship between division and multiplication.

6 ÷ 2



3 groups of 2

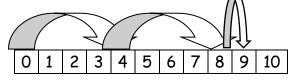


Year 2-

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. Children to the calculation using the short division scaffold.



Short division: moving onto show answers as decimals or fractions and not just as a remainder.

$$142 \div 4 = 35.5$$

$$0 3 5.5^{2}$$

$$4)1^{1}4^{2}2.0^{2}$$



Year 5-

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

Year 6-

using long division
when dividing by a
2digit number when
secure in short
division. Developing
to show remainders
for short division as
decimals or
fractions.