|  | Addition to be taught alongside each other Subtraction |  | Multiplication to be taught alongside each other Division |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Teachers should model addition using a range of practical resources. <br> Children should use fingers to count, with open palms, counting from left to right. <br> The concept of counting one more is the initial approach to addition. This could be by counting on one more in their head, on a number line or one more object to a group of objects. <br> Children understand when counting, the numbers have to be said in a certain order. They will understand they can count things they cannot touch, such as sounds (claps) and movements (jumps). <br> Children will count on, using cubes, number lines or numicon. They will experience counting from zero and from a larger number. <br> Children will experience counting in steps of tens, | Teachers should model subtraction using a range of practical resources <br> Pupils will begin to relate subtraction by showing 1 less, then counting how many object are left. <br> Children will also be expected to find 1 less by verbally counting backwards. <br> Children will be taught how to count backwards from different starting positions and to track this on a number line or track. <br> Children will understand the different vocabulary used relating to subtraction, such as 10 subtract 1 equals $9 / 1$ less than 10 is $9 / 10$ take away 1 equals 9 / the different between 10 and 9 is <br> Children are encouraged to develop a mental picture of the calculation and to demonstrate different ways of recording it. | Children will experience equal groups of objects and count the whole amount. <br> They begin to count in steps of $2 \mathrm{~s}, 10 \mathrm{~s}$ and later in 5 s . <br> They will be provided with practical opportunities and visual images eg: counting pairs of socks or counting in tens to find out how many fingers five children would have. <br> They will work on practical problem solving activities involving equal sets or groups. <br> M3 NH M N M M <br> 5 <br> 10 <br> 15 <br> 20 <br> "Four hands of 5 fingers is the same as 20 fingers." | Children will understand equal groups and share items out in play and problem solving. <br> Children will experience halving in context, halving apples and sandwiches etc. <br> Children will have opportunities to practice finding half of a number to 10 in practical activities. <br> Children will explore division by sharing objects out equally "One for you, one for me..." |




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Begin to illustrate that addition can be done in any order and to recognise that more than two numbers can be added.
\(10+7=17 \quad 7+10=17\)
-000000000000000000-
\(5+3+2=\)
\(\rightarrow \times \infty-\)
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Children will be experience using the bar models to encourage counting on rather than counting all as an alternative strategy.


Children will build on their fluency of number bonds.

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Children will begin to subtract by partitioning a number.

$14-4=10 \quad 10-1=9$

Children will begin to understand multiplication as repeated addition and as an array in context e.g. eggs in a box and cakes in a tin.


## 0000000 00000 <br> 00 00 00

Children will understand relating vocabulary relating to multiplication
e.g.
$5 \times 2$
2 lots of 5
5 multiplied by 2
5 '2 times'
$5+5$ is the same as $2 \times 5$

## Equipment

Numicon
Counters
Bead strings
Cubes
Dice
Number lines
Number tracks
Number track
Number tiles
Coat hangers \& pegs
Practical counting equipment
Dishes/hoops
Socks/gloves
10 frames
Base 10
Money- coins

