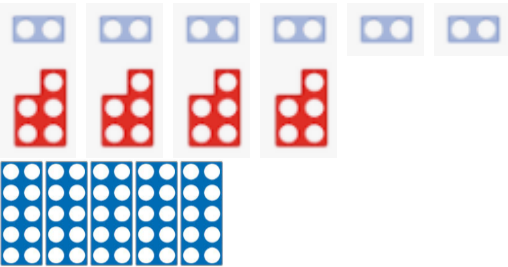
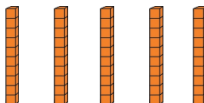

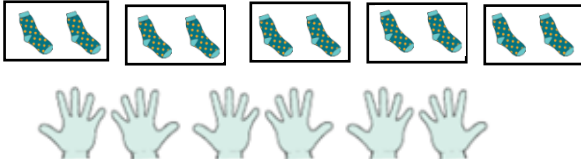



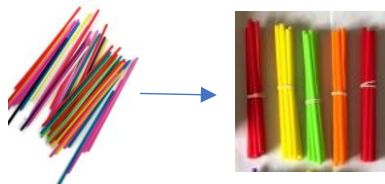


YEAR 1	Multiplication	
Vocabulary: ones, groups, lots of, doubling, repeated addition, array, row, column, equal, groups of, times, pattern, multiply, number, numeral.		
Concrete	Pictorial	Abstract
<p>Using concrete objects to reinforce counting and equal groups of.</p> <p>Counting in 2s, 5s and 10s:</p> <p>Introduce with real life objects e.g., pairs of socks, hands, bunches of flowers, crayons to give context.</p> <p>Numicon</p>  <p>Cubes/dienes</p>  <p>Arrays</p> 	<p>Counting in 2s, 5s and 10s:</p> <p>Pictorial images</p>  <p>Jottings</p>  <p>Arrays:</p>  <p>Repeated addition/groups of</p> <p>5 + 5 + 5 = 15</p> <p>3 groups of 5 is 15</p> 	<p>Children record their mathematical knowledge and skills using pictorial representations, arrays, jottings and mathematical statements.</p> <p>Mental methods</p>

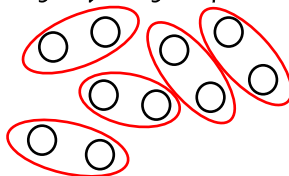
### Grouping equally:

Organising objects into equal groups to support counting in 2s, 5s and 10s.



### Grouping equally:

Making equal groups using jottings.



5 groups of 2

$$2 + 2 + 2 + 2 + 2$$

$$5 \times 2 = 10 \text{ (towards the end of the unit)}$$

### Counting:

Rote count in 1s, 2s, 5s or 10s up to 100.

Also use cubes, dienes, numicon.

### Doubling:

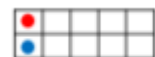
Numicon



### Cubes/dienes:



### Ten frame:

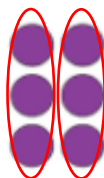


### Doubling:

Arrays:

Double 3

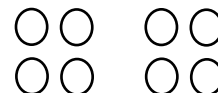
$$3 + 3$$



Jottings:

Double 4

$$4 + 4$$



### Doubling:

Instantly recall doubles to 10

$$1 + 1 \quad 6 + 6$$

$$2 + 2 \quad 7 + 7$$

$$3 + 3 \quad 8 + 8$$

$$4 + 4 \quad 9 + 9$$

$$5 + 5 \quad 10 + 10$$