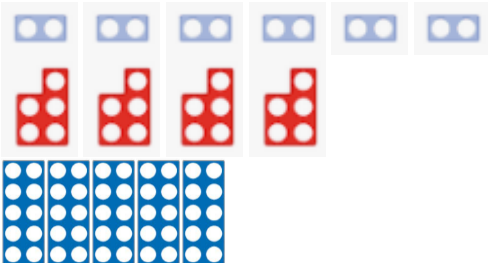
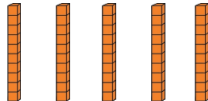
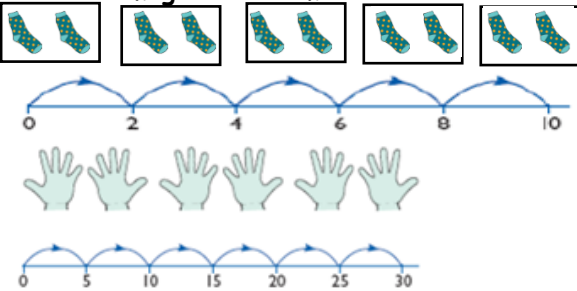
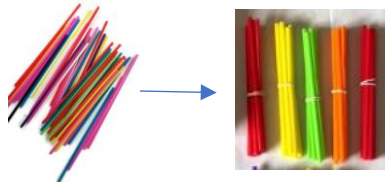


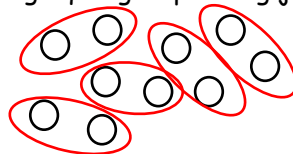
YEAR 1	Multiplication	
Vocabulary: ones, groups, lots of, doubling, repeated addition, array, row, column, equal groups of, lots of, times, pattern, times as (big, long, wide etc), longer, bigger, higher.		
Concrete	Pictorial	Abstract
Using concrete objects to reinforce counting and equal groups of. Counting in 2s, 5s and 10s: Numicon  Cubes  Arrays 	Counting in 2s, 5s and 10s: Pictorial images and number lines  Arrays:  $5 + 5 + 5$  $2 + 2 + 2 + 2$ 	Written No formal written method. Children record their mathematics using pictorial representations, arrays, number lines and mathematical statements.

Grouping equally:

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

**Grouping equally:**

Making equal groups using jottings.



$$5 \times 2 = 10$$

5 equal groups of 2

$2 + 2 + 2 + 2 + 2$ (repeated addition)

Mental methods**Counting:**

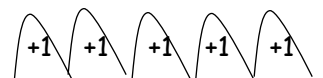
Rote count in 2s, 5s or 10s up to 100.

Doubling:**Numicon****Cubes:****Tens frame:****Doubling:****Pictorial images:**

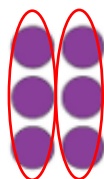
Six spots on each wing. How many altogether?

**Number lines:**

+5



5 6 7 8 9 10

Arrays:

$$3 + 3$$

Doubling:

Instantly recall doubles to 20

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

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

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

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

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