

**Barker's Lane  
Community School  
Calculation Policy**

# Early Years Counting skills

## Skills for number work

Counting songs/rhymes/games.

'Show me a number' activities using fingers.

Counting objects. Count out up to six objects from a larger group.

Count an irregular arrangement of up to ten objects.

Count objects to 10, and begin to count beyond 10

Select the correct numeral to represent 1 to 5, then 1 to 10 objects.

Recognise numerals 1-5/10/and beyond

# Early Years Addition

## Counting skills also need to be covered.

Use of games, songs and practical activities to begin and reinforce using vocabulary

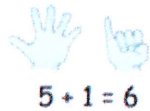
Use the language of 'more' and 'fewer' to compare two sets of objects.

Can find one more than a given number up to ten.

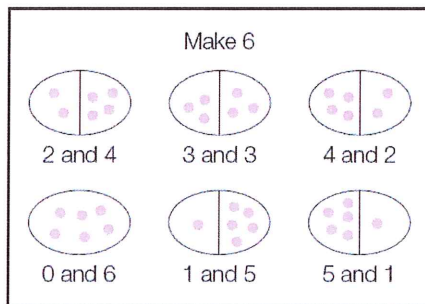
In practical activities and discussion, begin to use the vocabulary involved in adding.

Count on from a given number.

Solve simple word problems using their fingers

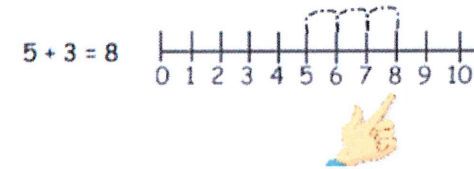


Begin to relate addition to combining two groups of objects



Construct number sentences to go with practical activities

Children to progress to using a number line. They jump forwards along the number line using finger.



Using quantities and objects, add two single-digit numbers and count on to find the answer.

Estimate how many objects they can see and check by counting them.

Begin to apply skills to money.

Rehearse adding two groups of objects in practical, fun homework activities.

E.g. How many windows are at the front of your house?

How many windows are there at the back of your house?

How many windows are there altogether?

Number formation rhymes/practice activities in preparation for written work

- Written numbers on whiteboards.
- Rehearse number formation with fingers (magic pencils) in sand/foam etc.

# Early Years Written Addition

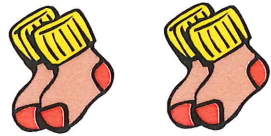
Make a record in pictures, words or symbols of addition activities already carried out (using whiteboards).

$5 + 3 =$

$5 + 3 = 8$

$5 + 3 = 8$     $3 + 5 = 8$   
 $8 - 3 = 5$     $8 - 5 = 3$

Complete single digit addition on a prepared laminated worksheet using objects.



$$\square + \square = \square$$

# Early Years Subtraction

## Counting skills also need to be covered.

Counting backwards from 10.

Use the language of 'more' and 'fewer' to compare two sets of objects.

Begin to relate subtraction to 'taking away'

Place numbers in order and say which number is one less than a given number.

Use of games, songs and practical activities to begin using vocabulary

In practical activities and discussion, begin to use the vocabulary involved in subtracting.

Use fingers to "take away" to ten., beginning with taking away one.



Relate subtraction to taking away and counting how many objects are left .

Construct number sentences to go with practical activities

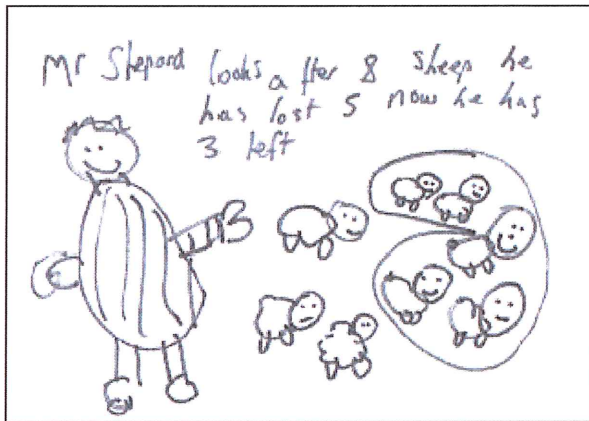
As time progresses children to use a number line to take away.



Using quantities and objects, subtract two single-digit numbers and count back to find the answer.

# Early Years Written Subtraction

Make a record in pictures, words or symbols of subtraction



Moving on to .....



$$5 - 1 = 4$$

Then moving on to .....

8 - 3 =

A grid-based subtraction problem: a 4x2 grid of purple squares (representing 8) minus a 2x2 grid of purple squares (representing 3) equals a 2x3 grid of purple squares (representing 5).

$$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$$

$8 - 3 = 5$	$8 - 5 = 3$
$5 + 3 = 8$	$3 + 5 = 8$

# Early Years Multiplication

## **Counting skills also need to be covered.**

Real life contexts and use of practical equipment to count in repeated groups of the same size:

E.g. in 2s, 5s, 10s,

Use pairs of objects to aid counting in twos e.g. socks or gloves.

Chanting in 2s, 5s and 10s.

Use a number line or a number square.

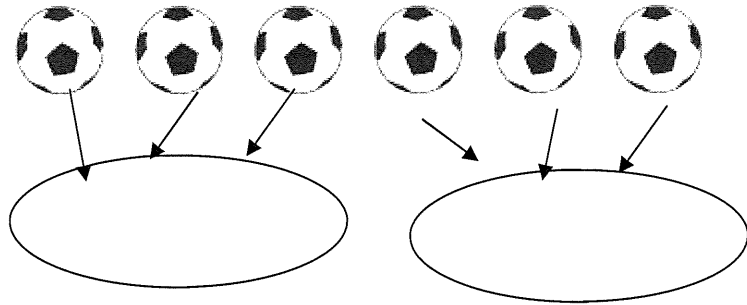
Solve problems, including doubling and halving

# Early Years Division

Counting skills also need to be covered.

Use Vocabulary of division e.g. share, fair, unfair.

Share objects into equal groups/the same as/sets/between people



Solve everyday practical problems, including halving and sharing.

- Sharing of milk at break time
- Sharing sweets on a child's birthday
- Sharing activities in the home corner
- Count in tens/twos
- Separate a given number of objects into two groups (addition and subtraction objective in reception being preliminary to multiplication and division)