

# Supporting your child with Mathematics in the Early Years



# End of year expectations



## Early Learning Goal for Number

Children can count reliably with numbers from 1-20 place them in order and say which number is 1 more or 1 less than a given number. Using quantities and objects they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems including doubling, halving and sharing.

# Key elements in the early learning of number

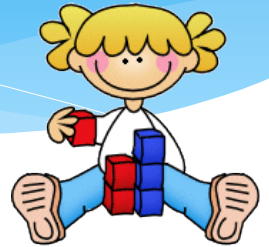
- \* Talk, talk and talk some more.
- \* Counting, counting and more counting.
- \* Numbers and the number system (order and value).
- \* Solving problems (this is an integral part of everything).
- \* Make maths part of your daily routine.
- \* Maths does not need to be recorded.



# Teaching children to count

## How you can help your child:

- \* Singing, number rhymes and songs.
- \* 1:1 correspondence (counting each object)
- \* Saying number names in order.
- \* Knowing the value of numbers and their relationship to each other. (The number system)
- \* Counting forwards and backwards.
- \* Using a range of vocabulary and language.
- \* Playing games-rolling a die number recognition.
- \* Counting objects in any order.



# Numbers in the number system

## The Value of Numbers

Many children learn to count and recognise numbers by rote learning. Although this is an important skill, children need to understand the value of each number to be able to use them effectively.

### How you can help your child:

- \* 1:1 correspondence e.g. counting pieces of fruit, plates, counting things out for cooking etc.
- \* Understanding the vocabulary of more/less than and before/after
- \* Playing games e.g. counting the number of spaces to move.
- \* Chalking a number-line outside





# Writing Numbers



For children to use numbers effectively, they need to be able to write them too. They can experience number formation by exploring a variety of kinaesthetic activities to help them practice. Numicon can be used to help children with number recognition.

## How you can help your child:

- \* Making playdough/plasticine numbers.
- \* Painting numbers with paint, water etc.
- \* Chalking numbers.
- \* Rainbow numbers.
- \* Numbers in the sand.
- \* Numbers in the air, on your back etc.
- \* Make up a rhyme to remember number formation



# Divergent Thinking

As a school we solve problems through Divergent Thinking. This gives children strategies that they can use to solve a problem. The strategies in our toolbox in Reception are

- \* Draw a picture
- \* Make it or act it out

Children are encouraged to choose a strategy which they find works for them and talk about their reasoning.



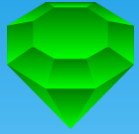
# Number Patterns

When children are secure with their understanding of numbers to 10, they begin to find number patterns very interesting. These could be missing numbers, odd and even numbers, counting in twos, fives, tens etc. They will notice number patterns in the environment e.g. house numbers.

- \* **How you can help your child:**
- \* Ordering numbers.
- \* Finding missing numbers.
- \* Whisper/shout game (see last slide).
- \* Looking at numbers when walking home.
- \* Number plates.
- \* Making their own number line.
- \* Colour coding numbers e.g. blue - even/red - odd.
- \* Finding odd and even numbers on a board game.
- \* Making up their own number pattern game.







# 10 nice things game



Each player chooses 10... nice things and using a die take it in turns to throw and ask your partner 'Please can I have ..... nice things?' The aim of the game is to get all the nice things!

You can play the game with 20/30... nice things and you can also use two dice.

- \* Ask questions as you play.....
- \* Who has the most?
- \* Who has the least?
- \* How many more do you have than your partner?
- \* How can we find out?
- \* Can you write all the numbers that make 10
- \* Can you see a pattern? Can we turn the number sentence around?  $10 + 0 = 10$
- \* What is the difference between the amounts you have?
- \* What number would you need to throw to be the winner?
- \* How many will you have if you win?
- \* How many did you start with?





# Number Pattern Games



## Odd and Even Game

- \* Whisper the odd number and shout the loud number whilst counting upwards.

## Number tennis

- \* Imagine hitting tennis balls to each other-this can be done counting in ones, twos, fives, tens...

