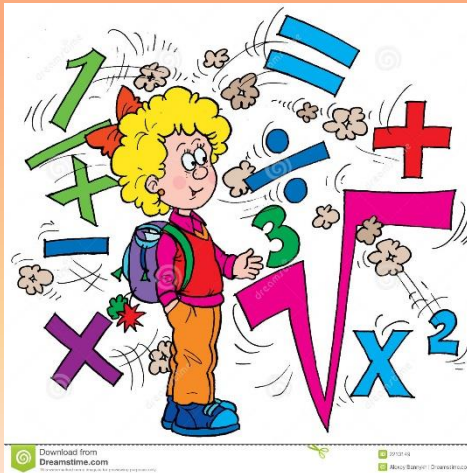


Mathematics

Parents workshop 27.9.18



Introduction

- Mathematics is a specific area in the Early Years Foundation Stage (EYFS).
- It is made up of two categories:
 - ~Numbers
 - ~Shape, space and measures

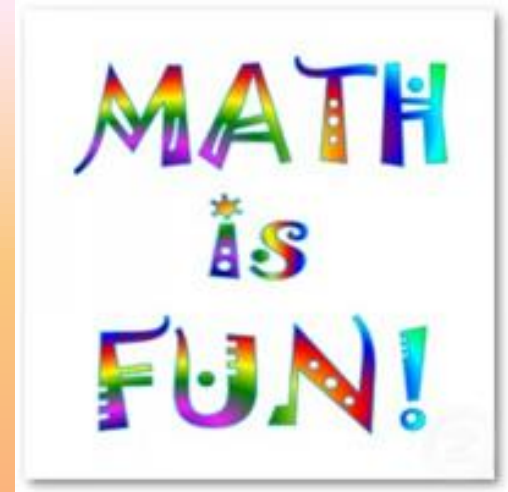
How we do it: through play and practical experiences

Key learning strategies:

- carpet times
- structured play adult led activities
- child initiated learning
- counting, number rhymes, stories and games everyday
- using a variety of resources such as unifix cubes, compare bears, fingers, number fans, numicon, natural objects, number lines up to 10, 20 and 100 squares etc

Maths both indoors and outdoors!

- Water and sand trays
- Washing lines
- Tuft spots
- On the walls
- On the floor
- Stories
- Maths in our everyday environment...



...



Counting - forwards and backwards

- Focuses on the development of children's early awareness of quantity and secures a foundation for addition and subtraction.



less



more

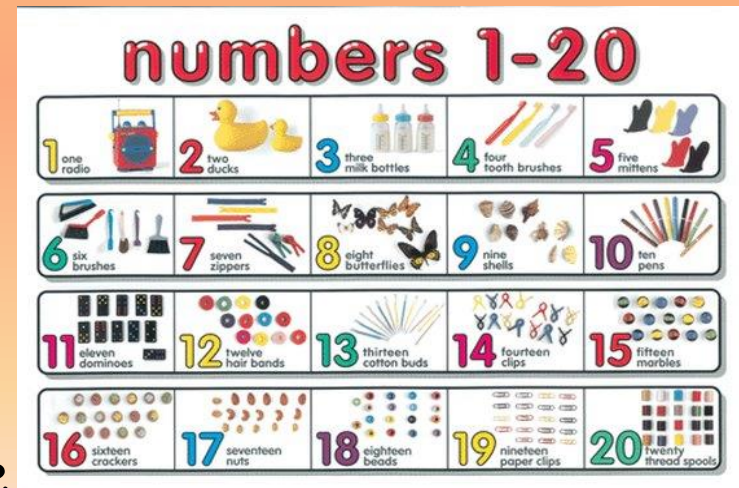


Numbers - key focuses

- ① Recite numbers in order to 20 and back
- ① Recognise and order numerals to 20 (from random)
- ① Develop problem solving skills
- ① Understand more/less - identify numerals which are 1 more and 1 less than a given number
- ① Begin to relate addition as combining two groups of objects and subtraction as 'taking away' - using symbols / recording in number sentences
- ① Counting 1:1 accurately beyond 10 objects
- ① Writing numerals

Numbers

- Children need to engage with numbers and to see how to use them in their everyday environment for labelling, quantifying and calculating: we want to help them develop a meaningful understanding of the world in which they live.
- Children need to understand that numbers represent quantities.
- **Maths, no problem!** We lay the foundations for the KS1+ scheme of work. Knowing that Maths can be an exploration of answers, rather than always being set and fixed. Problem solving.
- We use ten frames, our 'who is here?' board and specific language to support us.



Numbers

Early Learning Goal for NUMBER ~ children will be working towards this goal, within this goal or exceeding this goal, by the end of the Reception Year.

Numbers: Children count reliably with numbers from one to 20, place them in order and say which number is one more or one 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.

Shape , Space and Measures

Shape, space and measures: Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. They recognise, create and describe patterns. They explore characteristics of everyday objects and shapes and use mathematical language to describe them.

Early Learning Goal for S,S & M ~ children will be working towards this goal, within this goal or exceeding this goal, by the end of the Reception Year.

- ① Identify patterns in colour, shape, size etc.
- ① Identify and describe shapes (2d/3d). Make pictures and models.
- ① Start to recognise coins and learn to use them in practical experiences.
- ① Use mathematical language - greater, heavier, taller, smaller, under, over etc

Keep maths practical and have fun!

- Bath-time (filling and emptying containers, counting)
- Counting rhymes/songs - using fingers and objects for quantities
- Talk about numbers in the environment (eg, front door numbers, number plates, road signs etc)
- Help with the cooking (measuring, weighing, ordering the recipe)
- Setting table places (how many plates/cups etc)
- Paying in shops (including change)
- Estimating amounts (how many apples/sweets? Count to check)
- Shapes in the environment - shape hunts
- Size language - big, medium/middle sized, small
- Height language - tall, short, taller, shorter