

NURSERY MATHS WORKSHOP

Monday 15th January 2024



OBJECTIVES

The aim of this workshop is:

- * To give you some information about how maths is taught in Nursery at Oswald Road.
- * Show how mathematical learning is rooted in everyday, practical activities.
- * To offer some support/give you ideas for helping at home.

MATHS IS EVERYWHERE

- *Quantities for cooking – whether or not you measure the ingredients. (Enough? Too much? Heavy, light, how much do we need?)
- *Fitting a flat pack together (Does it fit? Do I need the long piece or the shorter one?)
- *Sorting the washing (Where's the matching sock?)
- *Recognising numerals in the environment (Door numbers, numbers on buses, pointing to numbers on a clock)

THERE ARE 2 ASPECTS OF MATHEMATICAL
UNDERSTANDING IN EARLY YEARS:

*Number

*Numerical Patterns

NUMBER

- Fast recognition of up to 3 objects, without having to count them individually ('subititising').
- Recite numbers past 5.
- Say one number for each item in order: 1,2,3,4,5.
- Know that the last number reached when counting a small set of objects tells you how many fingers there are in total.
- Show 'finger numbers' up to 5.
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
- Experiment with their own symbols and marks as well as numerals.
- Solve real world mathematical problems with numbers to 5.
- Compare quantities using language 'more than', 'fewer than'.

NUMERICAL PATTERNS

- Talk about and explore 2D and 3D shapes using **informal mathematical language such as sides, corners, straight, flat, round.**
- Understanding position through words alone – for example “The bag is under the table” – with no pointing.
- Describe a familiar route.
- Discuss routes and locations, using words like **in front of and behind.**
- Make comparisons between objects relating to size, length, weight and capacity.
- Select shapes appropriately: flat surfaces for buildings, a triangular prism for a roof etc.
- Combine shapes to make new ones – an arch , a bigger triangle etc.
- Talk about and identify the patterns around them.
- Extend and create ABAB patterns – stick, leaf, stick leaf.
- Notice and correct an error in a repeating pattern.
- Begin to describe a sequence of events, real or factual, using words such as ‘first’, ‘then’.

HOW WE TEACH MATHS

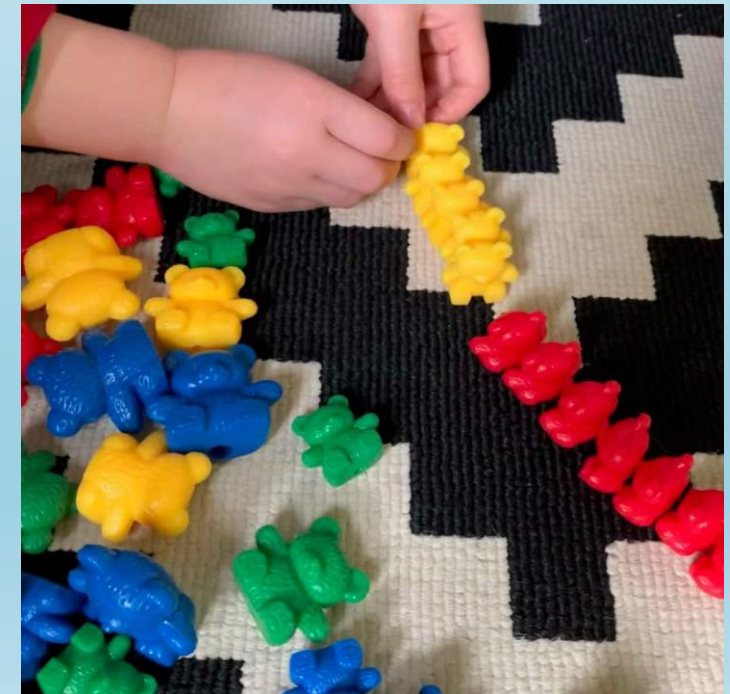
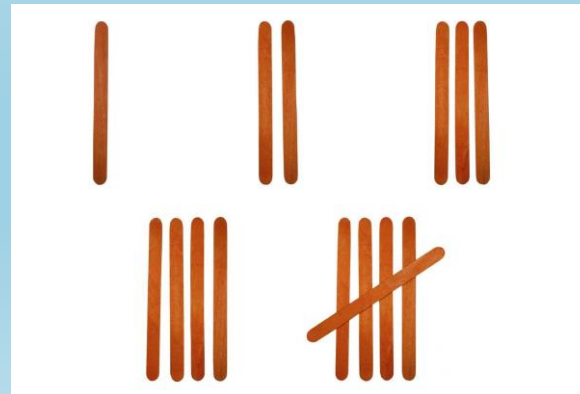
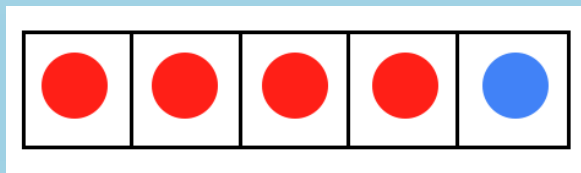
*We encourage mathematical learning through lots of play and practical activities.

* Maths is taught every day in Nursery for 20 minutes using a scheme called 'Master in the curriculum.'

*It is vital that the children experience maths through play and practical experiences which include:

- Exploring, counting, creating and making patterns with natural resources.
- Outdoor play – sand, water, games, keeping scores and mark making.
 - Number rhymes and songs.
 - Stories.
 - Games.
 - Role play – number names, money etc.

RESOURCES AT SCHOOL:



HOW IS LEARNING ACHIEVED IN NURSERY?

*Maths is integrated into everyday activities such as lining up, snack time, register and singing. As well as this, we teach maths for 20 minutes every day following our 'Master the curriculum' scheme.

*We encourage the use of different learning apparatus to aid learning such as cubes, compare bears, beads, number lines, fingers etc.

*Maths is also available in the continuous provision for children to access.

THE IMPORTANCE OF COUNTING

*Your child will begin to realise that everything can be counted– not just objects!

*During your everyday lives, encourage your child to count everything – the stairs, pieces of fruit in the fruit bowl, books on the bookshelf. But also – claps, jumps, kicking a ball. The list is endless!

* When your child is counting a set of objects, encourage them to line the objects up if possible and use one-to-one correspondence or ‘touch-counting’ when counting them slowly and carefully.

*Encourage your child to ‘count out’ specific numbers of objects as you go about your daily routines. For example, Can you put out 4 knives and forks on the table ready for dinner? Can you put 5 carrots in the shopping trolley?

*Ask your child to try and spot numerals in the environment e.g. door numbers and number plates on cars.

*Play games such as ‘pairs’ or ‘bingo’ to practice numeral recognition.

PRACTICAL MATHS

* The children are learning to add and subtract through practical activities and understanding the word 'altogether'. You can do the same at home with opportunities to add and subtract whilst they play. For example, we have 3 cars and 2 trucks – how many are there altogether? How many would I have if I took one away?

* More than or fewer than? Your children are learning how to compare 2 sets of objects using the language 'more' or 'fewer'. You can ask questions at home such as 'Are there more chocolate biscuits or jammy doggers in the biscuit tin?' 'Which group has the most?'

*Numeral recognition

HOME LEARNING — HOW CAN YOU HELP?

*Use a wide variety of maths vocabulary through language and asking questions e.g. wide, narrow, short, long, biggest, fewest, how many, I wonder how... How do you know? This will allow them to think further and draw out their understanding.

* Model your own thinking by explaining out loud what you are doing and why. Talk about how you have worked things out.

*Sing catchy number nursery rhymes.

*Play with them! Utilise resources around the house for counting, sorting, matching, measuring, weighing.

*Keep maths fun and related to everyday experiences.

ADDITIONAL IDEAS FOR HOME:

- Number recognition games.
- Comparing numbers – which one is the biggest, smallest.
- Snakes and ladders or other simple dice games.
- Practicing numeral formation, writing numbers together.
- Making pictures or models using 2D and 3D shapes.
- Asking your child to get you something to practice positional language.
- Showing your child a numeral and asking your child to give you that many objects.
- Create patterns together, ask your child to complete your pattern or detect an error in your pattern.
- Using a tablet / ipad for maths games and website such as ICTgames.com, topmarks.com.

THANK YOU

Thank you very much for coming today.

Are there any questions?