



Lake Farm Park Academy Maths Workshop

Friday 24th February 2017

Aims

- Look at why Maths is important
- Explain how we teach Maths across the Early Years (EY)
- Explore resources and strategies used in the classroom.
- Share with you some ideas of how you can help your child with their Maths at home.



Maths is everywhere!

Maths is about everyday life. We can't do things such as shopping, cooking, telling the time etc. Without using our mathematical skills and knowledge. Maths is everywhere and it doesn't happen just at school or nursery.

There are opportunities for children's maths development everywhere

- In the home
- In the garden
- At the shops
- On the way to school
- At the park

Maths in Early Years

- Maths, in the Early Years, builds an important foundation for number work and problem solving in Key Stage 1.
- There are 2 aspects of mathematical understanding in Early Years Foundation Stage.
 - ◉ Numbers
 - ◉ Shape, space and measure.

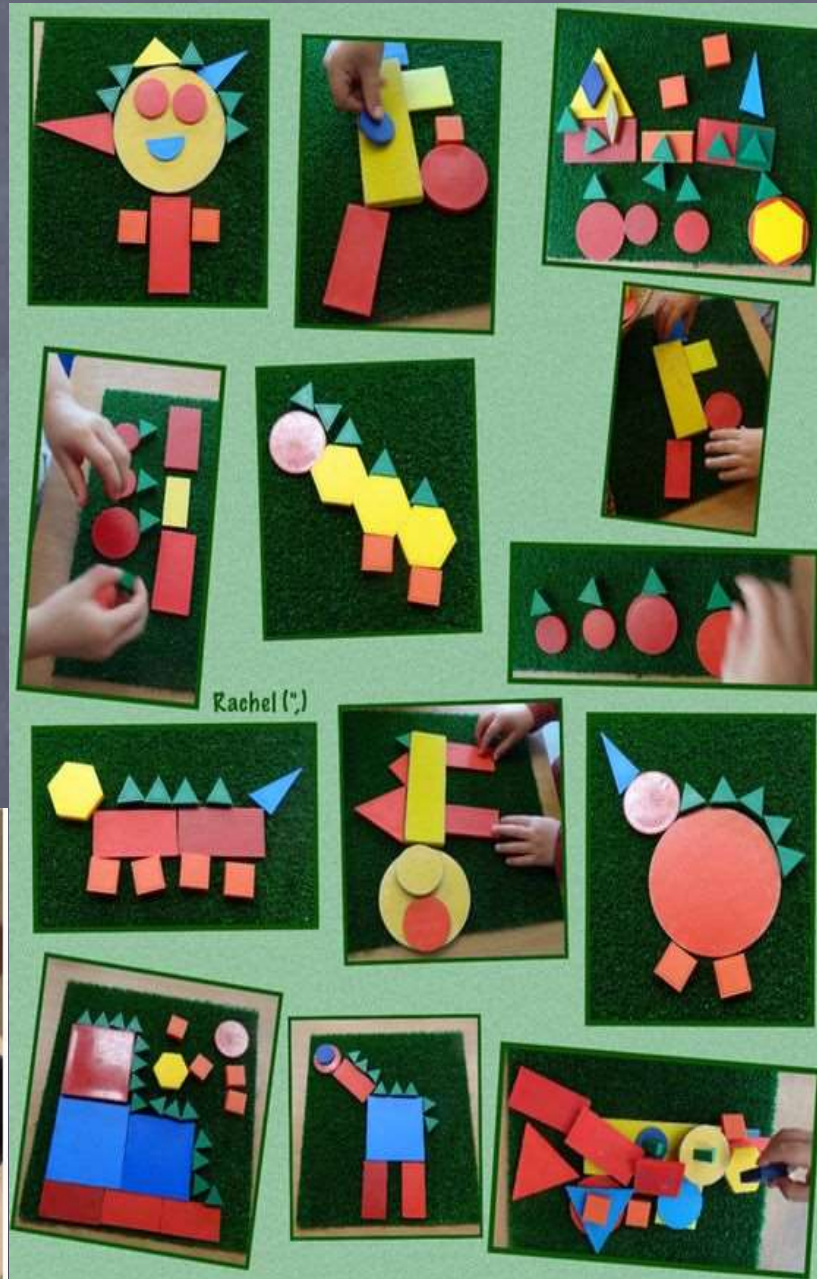


Shape, space and measure.

- Use mathematical language – greater, heavier, longer, smaller, under, beside
- Time
- Identify patterns
- Identify and describe shape
- Recognise and name coins and learn to use them in practical experiences

Examples of teaching shape space and measure

MAKE THE SHAPE & COUNT THE SIDES



Maths through play and practical experiences

- Before children start on any kind of formal calculating there are vital practical methods the children need to experience.
- Role play- shops, chemist, travel agents, super markets.
- Work stations- child initiated (this is providing children with various maths resources which they can use to initiate their own learning)
- Outdoor play- sand, water, games, coins
- Rhymes and songs
- Stories (Hungry caterpillar)
- Games

Examples of learning through play



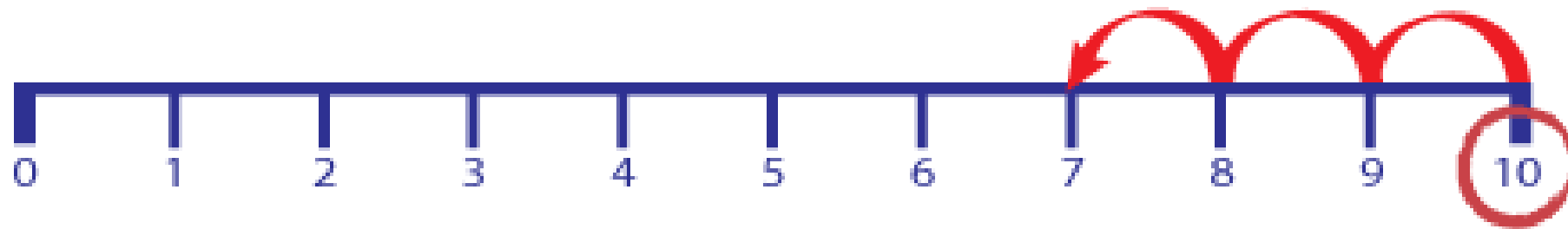


Numbers

- Say numbers in order
- Recognise numerals
- Develop problem solving skills
- Identify more and less
- Begin to relate addition to combining two groups of objects and subtraction to 'taking away'

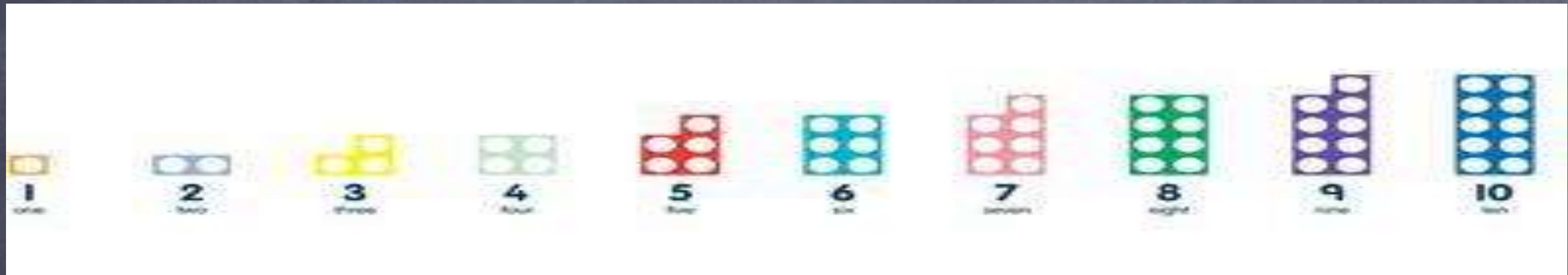


Examples of teaching numbers

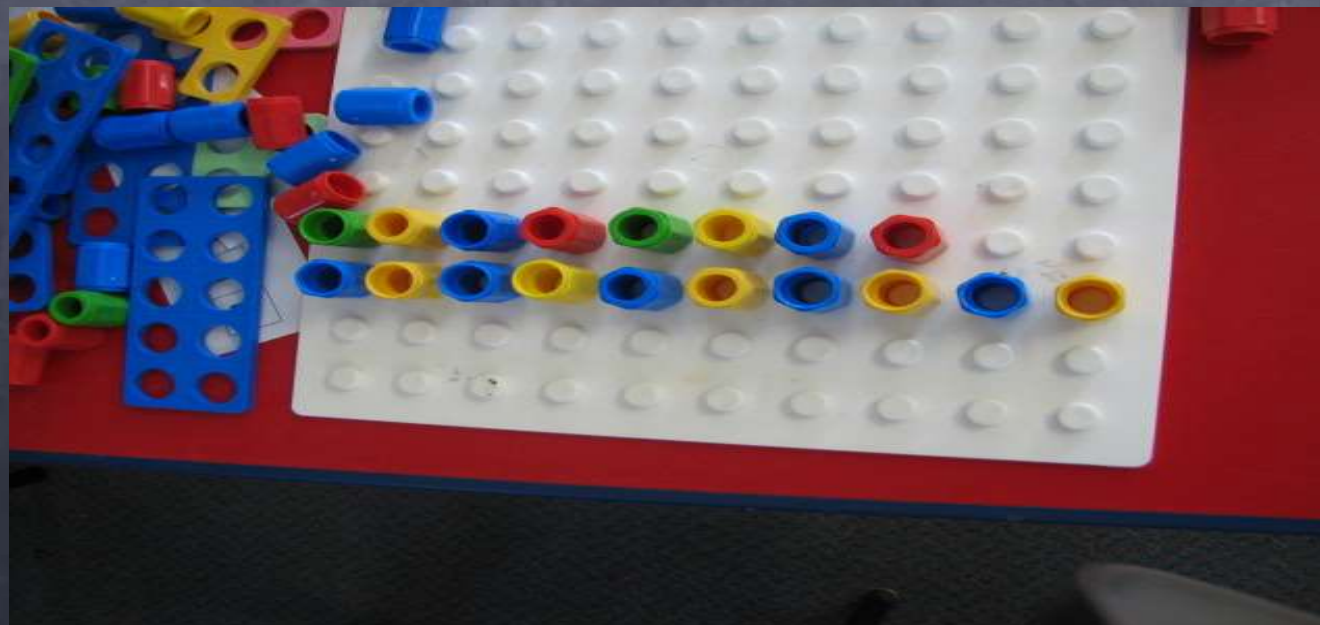


Numicon

- The shapes give children a tactile and visual representation of number ideas.
- It is multi-sensory approach to maths
- It can be used to help with counting and problem solving



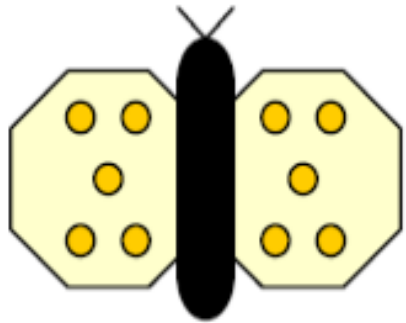
- Children learn to order numbers .
- Children learn repeated patterns using the Numicon peg and boards



Calculation Strategies

Begin to use the + and = signs to record mental calculations in a number sentence

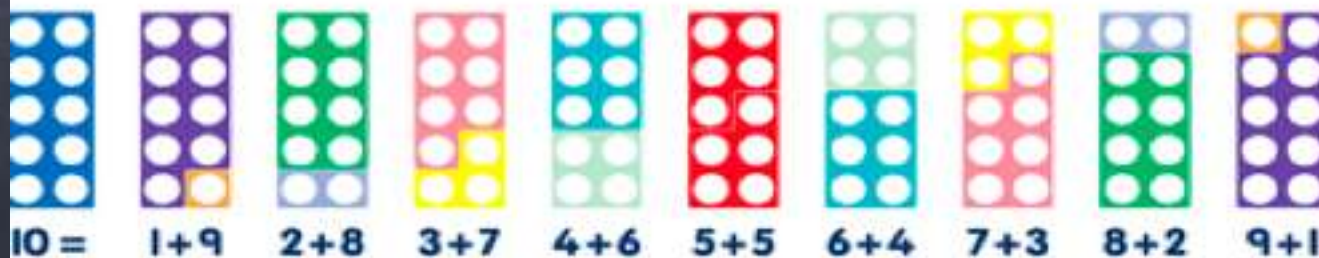
$$6 + 4 = 10$$



$$5 + 5 = 10$$

Know doubles of numbers

Find pairs of numbers that total 10.





How is learning achieved in Early Years?

- Through structured play, adult led activities and child initiated learning.
- Using counting rhymes, stories and games.
- We encourage the use of cubes, compare bears, fingers, number fans, numicon and number lines up to 10 and 20.
- We talk about 1 more/ 1 less, odd and even and multiples of 2, 5 and 10.



How YOU Can Help...

- Do little and often.
- Praise.
- Play lots of games. For example; Snakes and ladders.
- Remember that maths should be FUN!