

Maths in Early Years

Led by Mr Forbes & Miss Smith





Our School Prayer

This is our school,
Let peace be found here.
Let the rooms be full of happiness.
Let love abide here,
Love for one another,
Love for God.
Let us remember,
That as many hands build a house,
So many hearts make a school.
Amen.



Learning through play at school and home.


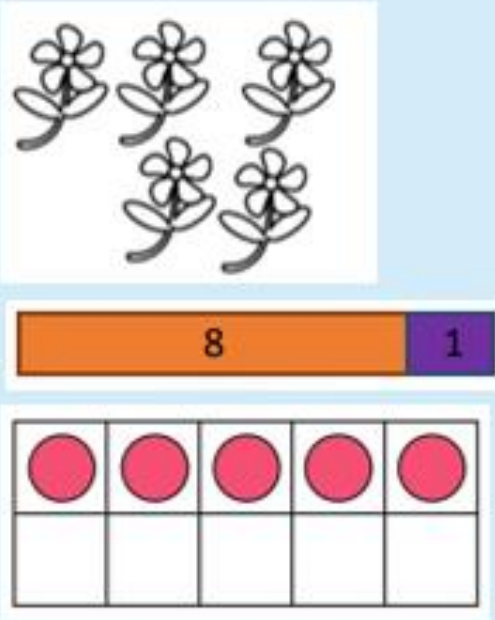
- ▶ Play is essential in teaching and consolidating in maths.
- ▶ Many of the maths objectives within Development Matters (the Early Years Framework) can be developed during free play.
- ▶ Play enables children to be independent and remain curious.
- ▶ By setting up and supporting activities in the environment, like the ones you will see today, children are not only learning about one specific maths objective, they are also learning so much more in other areas of learning; the possibilities are endless!



Maths group work

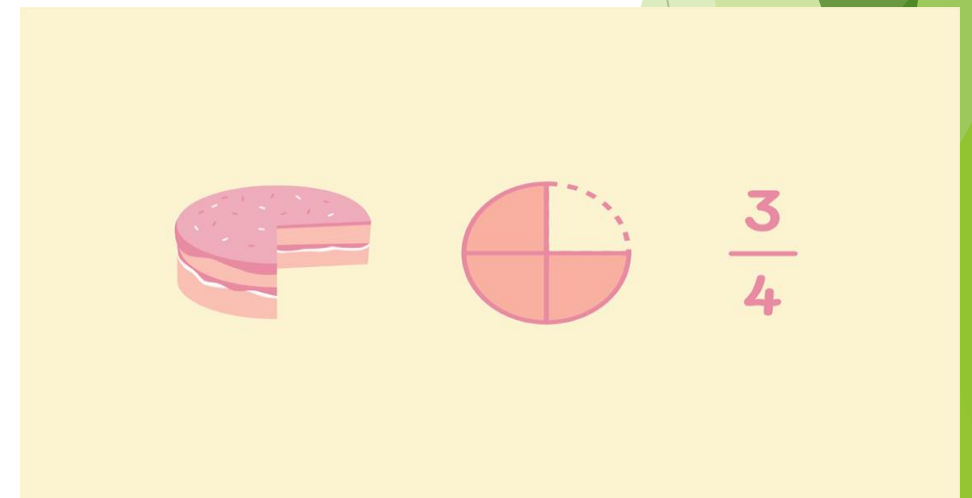
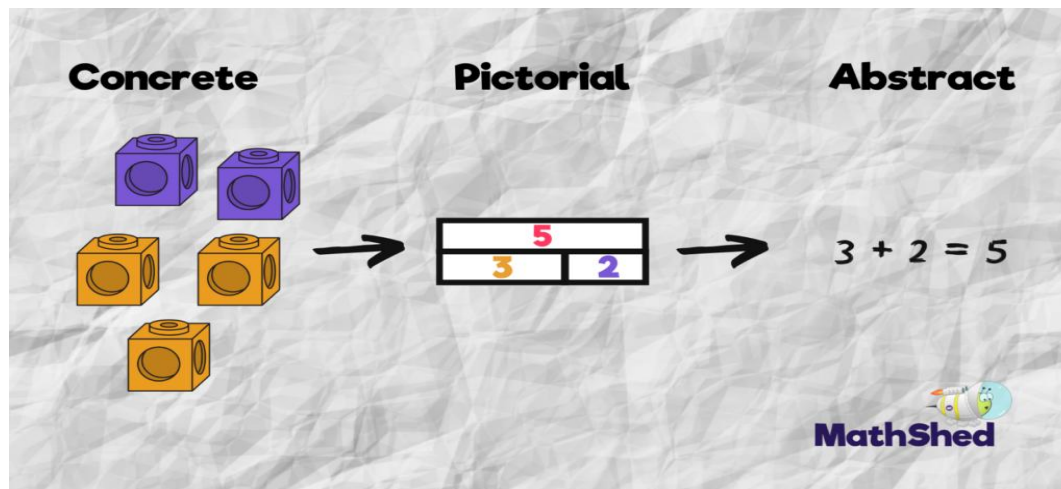


- ▶ As well as learning through play, we teach maths four days a week in Reception and three days a week in Nursery.
- ▶ Our guided maths planning is practical, extremely fun, and sometimes messy!
- ▶ Mastering Number: A scheme of work we have adopted, created by the MathsHub, focussing on clear understanding of number.

Concrete	Pictorial	Abstract
		$8 = 5 + 3$ $5 + 3 = 8$

Concrete, Pictorial & Abstract

The Concrete Pictorial Abstract (CPA) approach is a system of learning that uses physical and visual aids to build a child's understanding of abstract topics. Pupils are introduced to a new mathematical concept through the use of concrete resources (e.g. fruit, Dienes blocks etc).



Mathematical Language

- ▶ Lots of maths language, for example more, less, big, small, wide, thin and positional language (underneath, above), needs to be modelled by adults for children to learn and it is so much more effective if it's during authentic play experiences.
- ▶ This can be replicated at home when doing every day activities.



Number

- ▶ Lots of opportunities for number recognition and counting occur during the day - such as counting the number of stairs, recognising the numbers on doors and buses.
- ▶ It is not just recognising and counting numbers but developing a deeper understanding of the sequence, pattern and composition of number.
- ▶ When laying the table for dinner model working out how many forks you need - 'We need four forks I have two, how many more do I need?'



Problem Solving, Reasoning and Pattern

- ▶ Loose parts are not only amazing for helping children to develop creativity, problem-solving and reasoning skills, but are also perfect for developing and embedding pattern creating.
- ▶ Construction is another area where children can learn these undervalued skills.



Weight and Measures

- ▶ We model measuring for example outside during building and construction: large scales outside, small balance scales inside for children to explore.
- ▶ Self-service play dough stations and cooking areas help children independently develop important maths skills while having fun!
- ▶ Any cooking you do with your child at home will be really helpful.



Time

- ▶ We encourage children to use time every day for example measuring how long running races or car racing through guttering takes: estimate then check.
- ▶ Modelling using stop clocks during races or games.
- ▶ Ask children for the time.
- ▶ When discussing the daily routine, we talk about the times that things will happen.
- ▶ Always have as many clocks and watches at home as you can and modelling using time.



What can you do?

- Be positive and show an interest in mathematics.
- Model the 'have a go' attitude.
- Make mistakes in front of your child and model how to overcome this difficulty.



What can you do?

- Sometimes, making a statement will promote more discussion than asking a direct question
- Involve your child in baking and cooking
- Go on number and shape hunts around your home and area



What can you do?

- Play board games together
- Go shopping together – look at prices, amounts, count items in the basket
- Real life maths problems (eg. Setting the table, sorting pairs of shoes and socks)
- Measuring height
- Sing number rhymes

