



Maths

Mathematical development

- Maths in school
- Supporting your child at home

What is Maths?

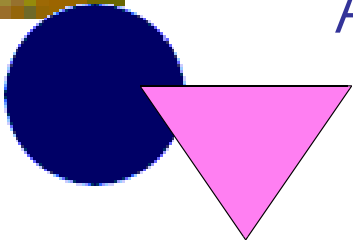
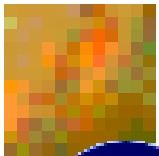
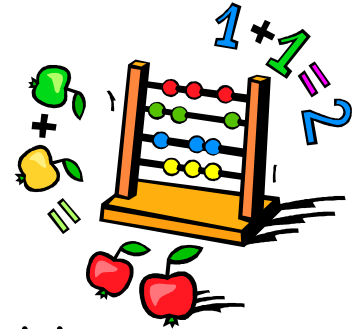
A large part of maths is about numbers, but it involves more than just numbers.

It includes two teaching strands:-

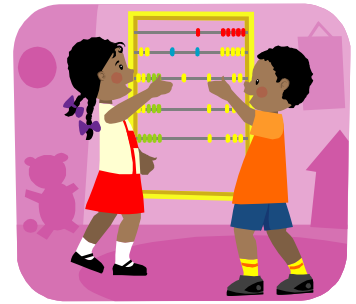
- Number – This includes counting, number recognition and writing and calculating
- Shape, Space and Measure – Time, weighing, capacity etc..

They are all equally important and linked

At school children learn about all of these.



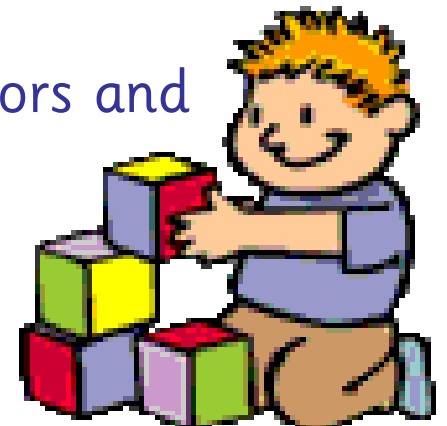
Learning Through Play



- Learning through play is one of the key principles of Early Years education.
- Mathematical learning is supported by playful and practical activities.
- We plan for play in the environment by carefully chosen resources and plan adult led learning opportunities too.

The maths that children learn will be through;

- stories
- songs
- rhymes
- games
- sand and water
- using building blocks and construction toys
- imaginative play
- outdoor physical games
- making things with paints, materials, scissors and glue



What does maths provision look like in the Foundation Stage?



Patterns

forwards/backwards



Child Initiated Play

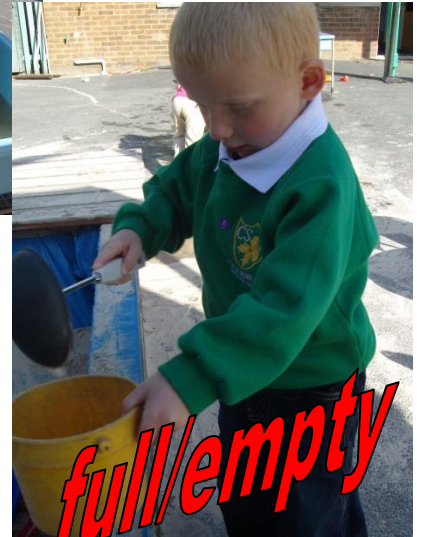
More/less



sorting

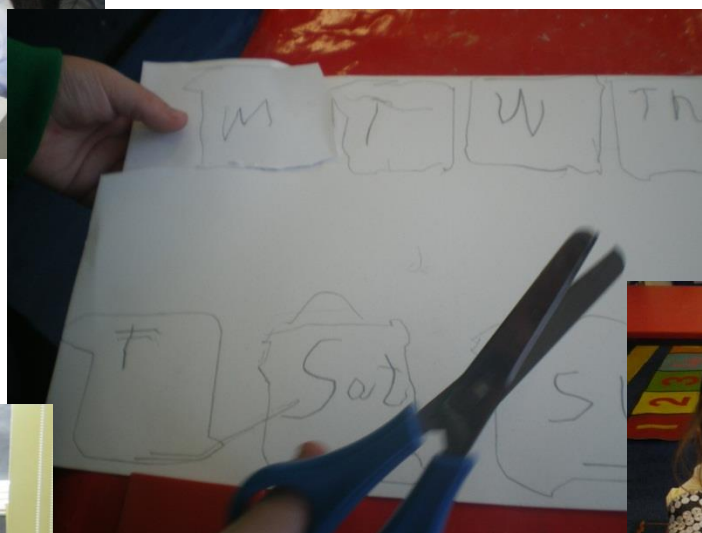


measuring



full/empty

Maths role-play



Today we are going to focus on counting.

- Counting has many elements. It is not just counting out numbers, this is called saying number names. Eg
- We start counting by making sure children touch as they count, eg.....(This is initially really difficult for them to do).
- The next stage is to ask them “ How many have you counted?” We want them to remember the last number they counted (This is called conserving the number). To begin with children will start recounting when you ask this question.
- Next we ask them to count a number of objects from a larger group. They need to know when to stop, when they have the correct number.
- To begin calculation children will need to start comparing groups of objects. This is some of the language they may use:-
More less fewer about the same greater

- When children are secure in touch counting we ask them to count things they can't touch. E.g. sound of buttons in a tin, birds in the sky, tiles on a ceiling.
- We also ask them to match the number they have counted to a numeral.
- Another key skill for counting is estimation or making a good guess. Saying how many are in a group and checking by counting.
- Finally writing and reading numbers. Note for two digit numbers e.g. 12 19 34, we use the vocabulary. E.g. " a ten and a two -12, three tens and a four - 34

Fewer and less

If you count objects you use the word fewer if you're comparing number or things you can't count, you use less. Less means "not as much," eg. I have less orange juice than you", whereas fewer means "not as many, eg. "I have fewer apples than you"

And if you really want to point that out to a supermarket assistant- (10 items or less should be 10 items or fewer!)

Numicon

3

This is number 3

Is it?

Children very often say I'm 3 because that is their context

What is 3?

Numicon helps with that

<https://www.youtube.com/watch?v=yYgwM5Z1tMo>

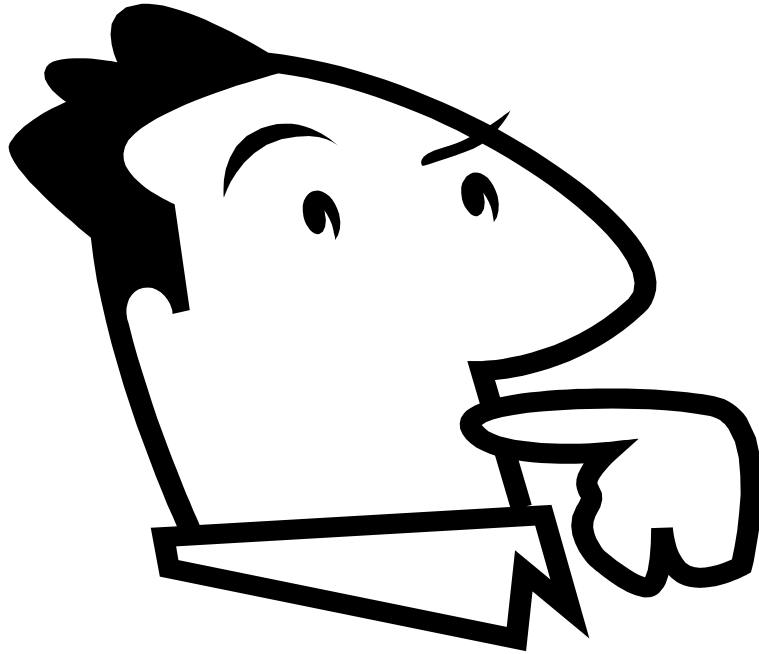
Your Role as a Parent



Research shows that your interest and involvement in your child's learning and education is more important than anything else in helping your child fulfil their potential.

As parents, you are the people who go with your child on their learning journey, from the day they are born to the time they become an adult.

How can I help?



What do you do already?

Maths Websites

There are lots of free websites for your child to enjoy in many ways for all curricular areas. Here are just some with a maths theme.



www.bbc.co.uk/schools/websites/4_11/site/numeracy.shtml

www.mathsisfun.com

www.ictgames.co.uk

www.bbc.co.uk/cbeebies

www.learningplanet.com

www.funwithspot.com

www.aaaaa.underfives.co.uk

www.themouseclub.co.uk

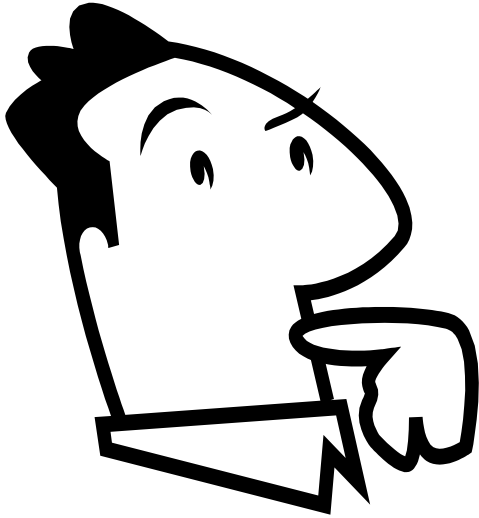
www.topmarks.co.uk/maths-games/3-5-years/counting

www.crickweb.co.uk/Early-Years.html

www.google.co.uk is great to find a site you want just put in a key word and search.

Please supervise your child whilst on the internet and keep them safe at all times.

Now it's time for some maths fun!



A board game is a perfect way to practise counting and have fun!

We would like you to make a pirate board game with your child. (see the crib sheet for more information)

We also have some counting games around the room. When you have finished you may like to play with some.