



Year 1 Numicon Workshop

Tuesday 25th February 2020

What is Numicon?

Numicon is an approach to children's mathematical learning that emphasises 3 key aspects:

- Communicating mathematically (being active, illustrating, talking)
- Exploring Relationships
- Generalising



It is about multi-sensory, manipulative based teaching.

How does Numicon help?

In two main ways:

It acknowledges that in order to understand what numbers are, children have to generalise and come across number and counting a range of ways.

It follows key teaching theories that using actions and imagery supports their communication and thinking.

Understanding concepts of number:

It can be quite difficult to explain to a child the mathematical concept of 'five'.

But the Numicon shape for 'five' looks like 'one less' than six and 'one more' than four.



How is Numicon first introduced?



Moving on to finding out what the shapes are worth and what they mean...



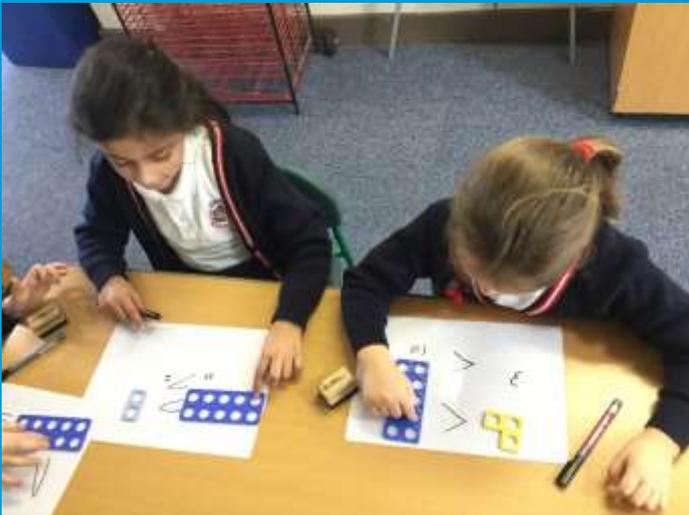
Moving on to finding out what the shapes are worth and what they mean...



Moving on to finding out what the shapes are worth and what they mean...



Moving on to finding out what the shapes are worth and what they mean...



Using the Numicon to support counting moving into calculating :

<https://www.youtube.com/watch?v=mkDxiaRmvE4>

Calculating

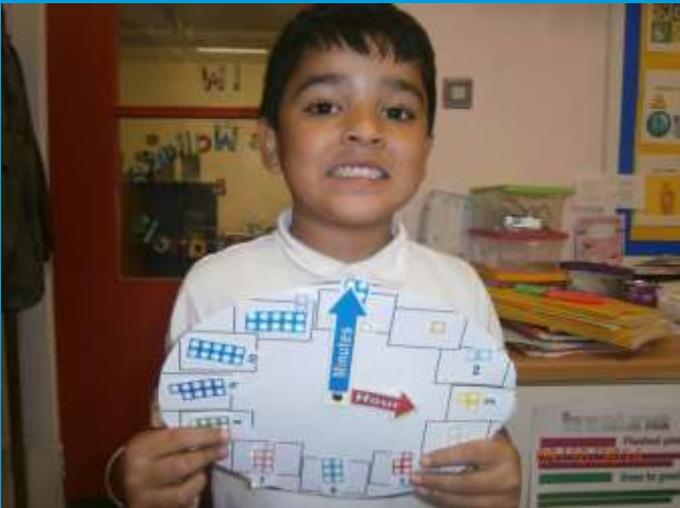
- Always using concrete objects initially – Numicon shapes, objects, counters etc. Children need to be able to talk about what they are doing first.
- Moving on to pictorial – drawing pictures to show what they have done, developing their reasoning and explaining.
- Further up the school – looking at more abstract methods e.g. column methods.

Beginning to calculate:



Using the dienes rods:

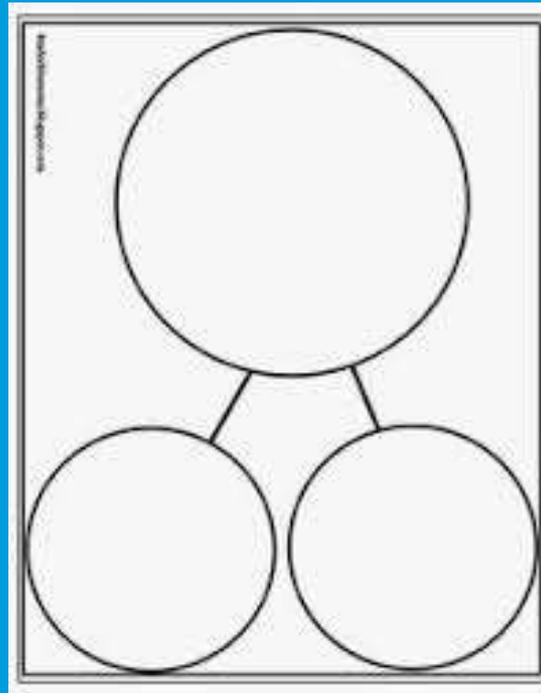




The Transition from EYFS into Year 1

- Numicon is continued to be used as an initial teaching and learning tool whenever a new concept is introduced and to revise where they have come from.
- Manipulatives are used alongside written strategies and then removed when the children are confident – this includes Numicon, dienes rods, place value counters, bead strings amongst others.

Part, part whole method



<https://www.youtube.com/watch?v=GyK8iEO5-GI>

Part, part whole method

Albie is using the numicon to work out the missing number in this part whole model.

This is what he does.

Can you explain his method?

00 x 600

Useful websites

<https://www.oxfordowl.co.uk/for-home/find-a-book/numicon-guide-for-parents/>

<https://nrich.maths.org/>

Please have a look at the resources and Mrs Perkins and I are here to answer any questions.

