



Maths Workshop

Reception

Mrs Poole

Maths Co-ordinator



Numicon

- Children's early experiences at home have a huge impact on their later achievement in maths.
- Numicon is a multi sensory approach using apparatus to focus on imagery, action and conversation.
- Numicon is designed to give children the understanding of number ideas and number relationships that are essential for success in maths.

Numicon

- Can you put the Numicon shapes in order from 1 to 10?

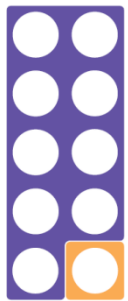


- Why do some pieces have 'sticking out bits'?

Number Bonds to 10



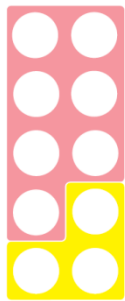
10 =



1 + 9



2 + 8



3 + 7



4 + 6



5 + 5



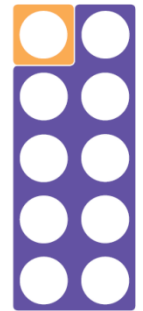
6 + 4



7 + 3



8 + 2



9 + 1

NUMICON IN SCHOOL



ELG—Children count reliably with numbers from one to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing

- **Mathematics: Numbers**

- • Recognise some numerals of personal significance.
- • Recognises numerals 1 to 5.
- • Counts up to three or four objects by saying one number name for each item.
- • Counts actions or objects which cannot be moved.
- • Counts objects to 10, and beginning to count beyond 10.
- • Counts out up to six objects from a larger group.
- • Selects the correct numeral to represent 1 to 5, then 1 to 10 objects.
- • Counts an irregular arrangement of up to ten objects.
- • Estimates how many objects they can see and checks by counting them.
- • Uses the language of 'more' and 'fewer' to compare two sets of objects.
- • Finds the total number of items in two groups by counting all of them.
- • Says the number that is one more than a given number.
- • Finds one more or one less from a group of up to five objects, then ten objects.
- • In practical activities and discussion, beginning to use the vocabulary involved in adding and subtracting.
- • Records, using marks that they can interpret and explain.
- • Begins to identify own mathematical problems based on own interests and fascinations.
- •

plus

total

add

together

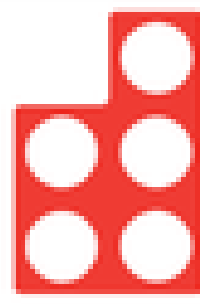
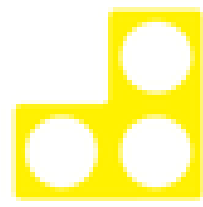
+ Addition +

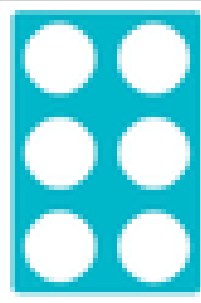
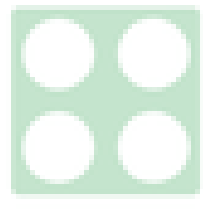
increase

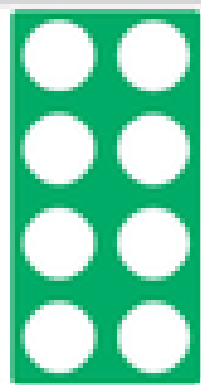
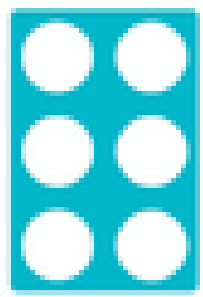
sum

more

and

 $+$  $=$

 $+$  $=$

 $+$  $=$

take from

reduce

fewer

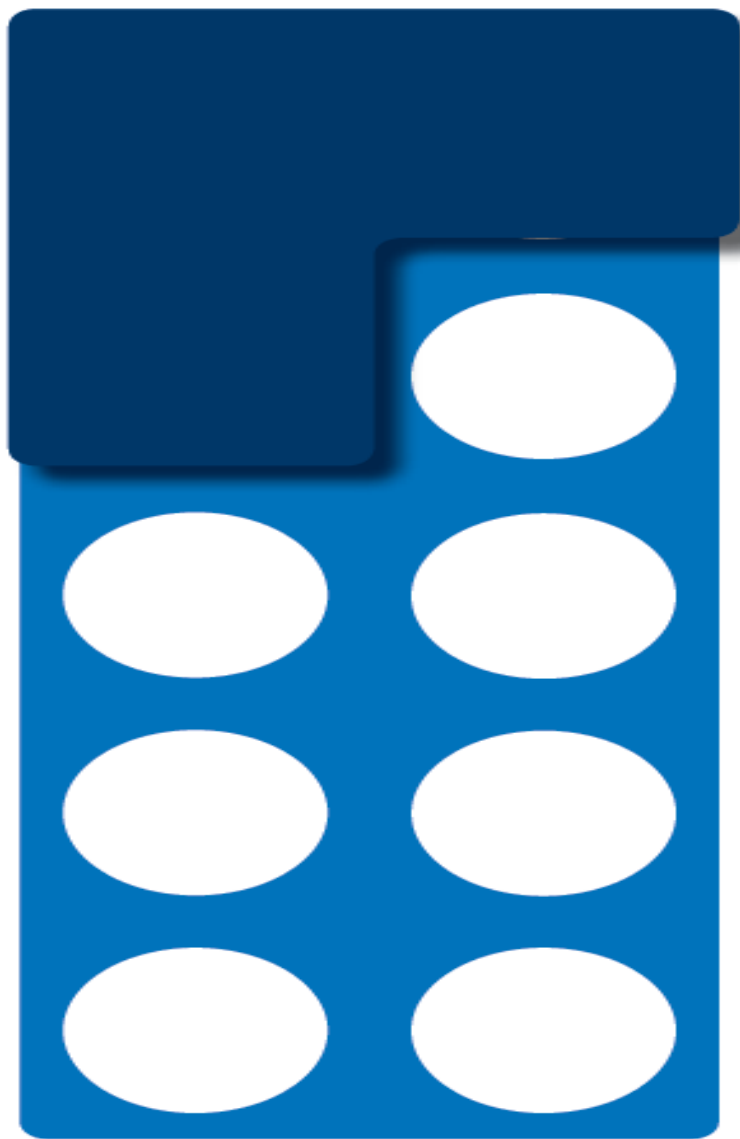
minus

- Subtraction -

difference between

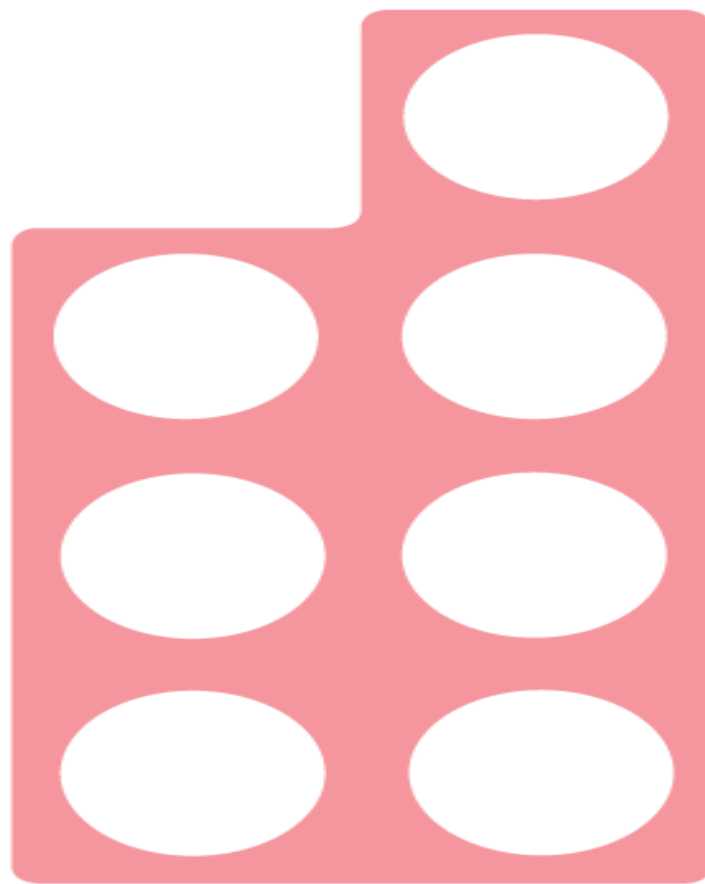
take away

decrease



10 - 3

=



7

NUMICON AT HOME

- I have created a list of practical activities which can be done at home with your child using Numicon.
- Each activity will help you and your child become more familiar with the Numicon pieces, and provide opportunities to develop early mathematical conversations.
- For each activity I have included photos to help explain further.

PAINING WITH NUMICON

Using the Numicon pieces
to print with.

Finger printing patterns .



PLAYDOUGH

Pushing Numicon pieces into play dough to create pattern.

Which Numicon piece made this pattern?



PLAYDOUGH

How many bumps are there?



Which 2 pieces could cover the pattern?



NUMICON STAIRCASE

Can you lay out the Numicon pieces in order to create a staircase?

Ask your child to cover their eyes, remove one piece, can they tell you which piece is missing?



MONEY- PENNIES

How many pennies would cover the holes of the Numicon piece?



Can you lay out your pennies in the Numicon pattern?



RUBBINGS

Hide a piece of Numicon under a piece of paper, ask your child to make a rubbing of it with a crayon, which piece is hidden under the paper?



Make a rubbing using tin foil, which piece is under the tin foil?



DICE

Match the number thrown to
Numicon piece.

How many altogether?



FISHING IN THE BATH

- Numicon pieces are great to use in water, if you have a net set them off finding pieces in the bath.
- Even more fun if the bath has bubbles, can you feel around and find a Numicon piece with 3 holes?
- Find 2 Numicon pieces, which has more holes?

HAVE FUN!!



Parents Resources

- www.numicon.co.nz
- There are lots of **free** resources online using the above website, including resources to print, activities etc.
- If you feel you would like to purchase Numicon for your child at home we can offer two different resources:
- Box 1-10 shapes - £5.40
- Maths Homework Bag - £16.20



Find the matching Numicon Shapes

A matching activity

What you will need...

- Numicon Feely Bag
- Numicon Shapes (two of each Shape 1-10)
- Numicon 0-5 and 5-10 dice

What to do...

- Choose three different Shapes and put them on the table. Ask your child to find the three Shapes that match and put them in the Feely Bag.
- Take turns to point to one of the Shapes on the table and feel in the Bag to find the matching Shape. Pull the Shape out of the Bag to check. **photo 1**

What next...

When your child can do the first part easily, try this:

- Ask your child to choose a dice, throw it and find the matching Shape. **photo 2**
- Can they collect all ten Shapes?

Or this:

- Put one set of Shapes in the Feely Bag.
- Ask your child to choose a dice, throw it, and feel for the matching Shape from the Feely Bag.

1



2



Maths Homework Bag

