



Templemoor Infant and Nursery School

Early Years Foundation Stage
Evening for Parents



Number

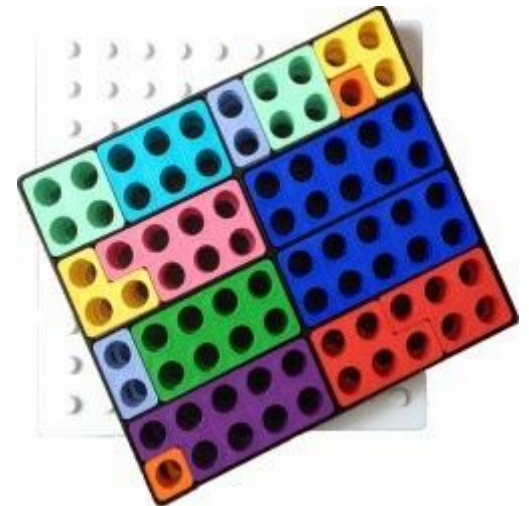
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78910



Awareness of Number

Children start Nursery and Reception with a wide range of experiences of number.

- they may know and/or recognise their house number
- say and/or recognise their age and siblings ages
- they may be able to count by rote to:
3, 5, 10, 20, or 100 and beyond!
- they may recognise numerals
- they may **not** show any interest in number!



Expectations of Number in the EYFS

Nursery (30-50 months)

- Recites numbers in order to 10
- Knows that numbers identify how many objects are in a set
- Begin to represent numbers using fingers, marks on paper or pictures
- Sometimes matches numeral and quantity correctly
- Compares two groups of objects, saying when they have the same number
- Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same
- Shows an interest in numerals in the environment
- Realises not only objects, but anything can be counted, including steps, claps or jumps

Reception (40-60+ months)

- Recognises some numerals of personal significance
- Recognise numerals 1 to 5
- Count 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 beyond
- 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

Early Learning Goal (end of Reception Year/Foundation Stage)

Children count reliably with numbers from one to twenty, 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.

Exceeding age-related expectations (for those who have reached the ELG)

Children estimate a number of objects and check quantities by counting up to 20. They solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups

How we teach number at Templemoor

In Nursery

- We display number in play areas inside and outside
- We have 'Numicon' in many areas inside and outside
- We count purposefully during children's day e.g. how many children on the carpet, staying for lunch, in the water, how many dinosaurs in the box and count equipment especially when tidying.
- We record the date with the written number and 'Numicon'
- We have a stimulating Maths area with specific number equipment, books and games
- We sing many number songs
- We introduce children to numbers 0 to 10. e.g. number of the week
- We have a daily shared number session (large group)
- We have a weekly focussed activity (small group)

Nursery

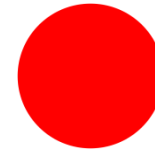


In Reception

- We display number in play areas inside and outside
- We have 'Numicon' in many areas inside and outside
- We count purposefully during children's day e.g. how many children in the class today, in the water, how many dinosaurs in the box and count equipment especially when tidying.
- We record the date with the written number and 'Numicon'
- We have a stimulating Maths area with specific number equipment, books and games
- We sing many number songs
- We have at least three shared number sessions a week (large group)
- We have a weekly focussed number activity (small group)
- We have a weekly number 'Rainbow Challenge'

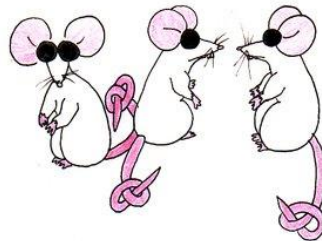
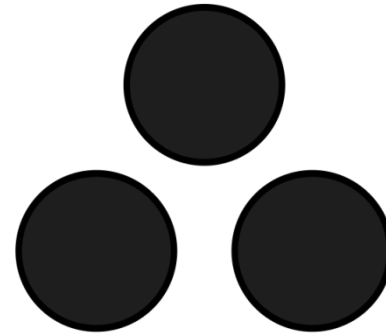
To Support Children's Learning they need:

Concrete – Pictorial – Abstract



In the Early years we have many opportunities to count during play with concrete (real) objects in purposeful ways.

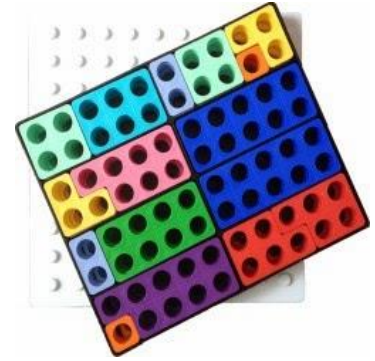
Numerals are abstract, they need pictures or concrete objects to explain what a number means.



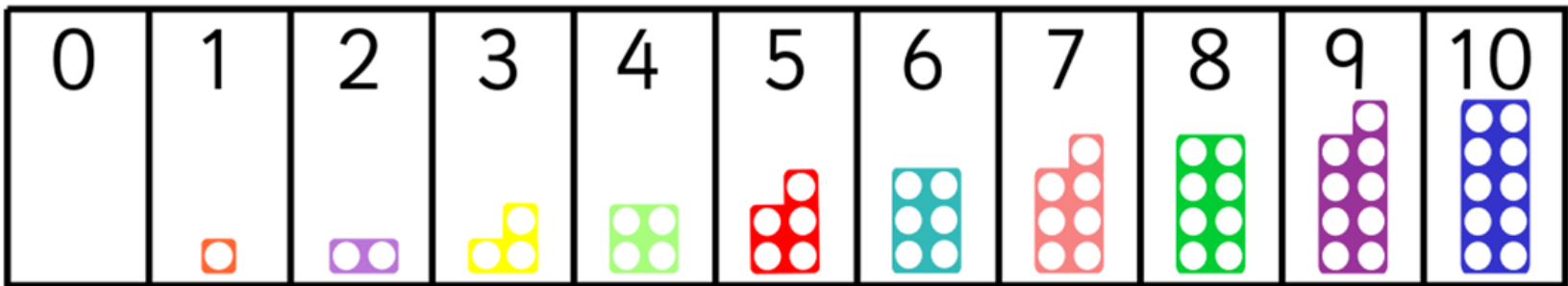


Now it's time for a quick
quiz!

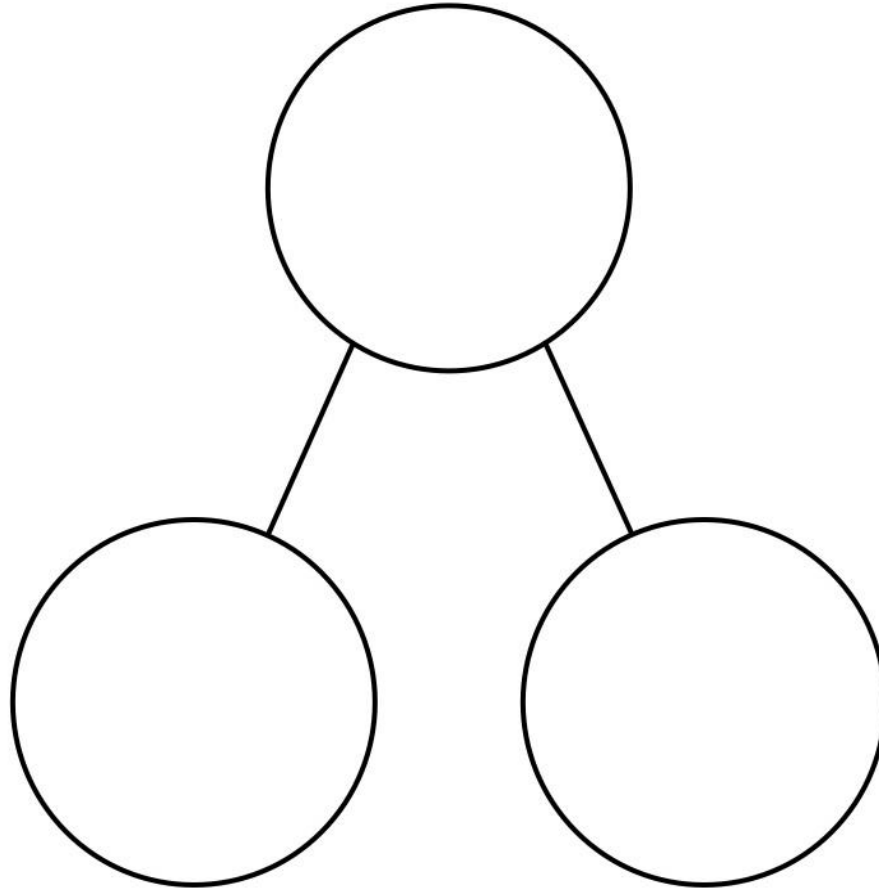
Numicon



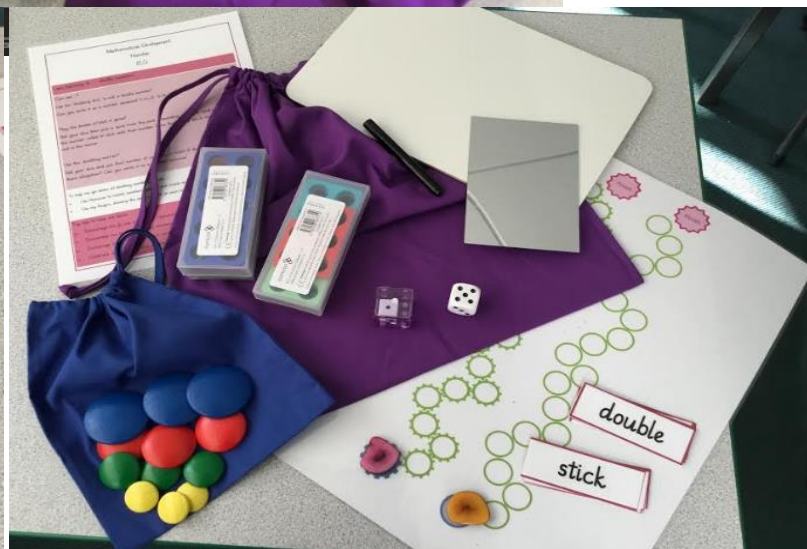
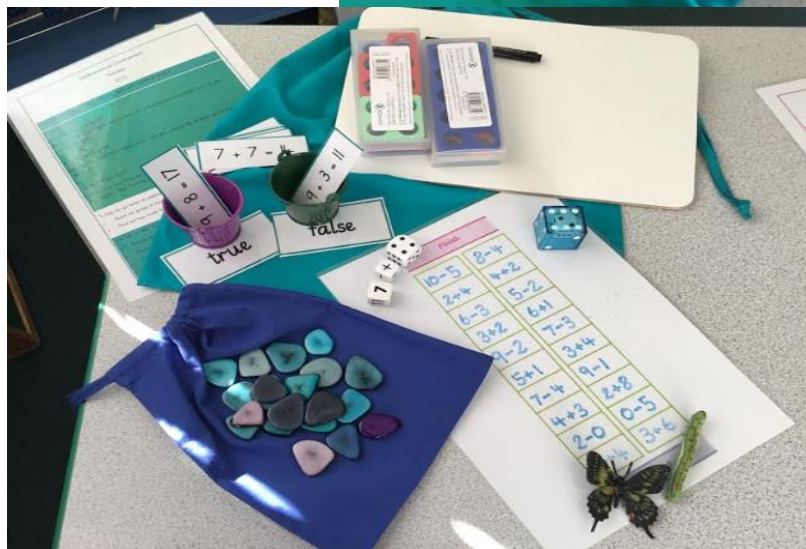
We use Numicon at Templemoor to help develop children's understanding of number.



Part, Part, Whole



Number Sacks



Vocabulary

- how many
- altogether
- more
- less
- fewer
- forwards
- backwards
- now
- same as
- moves down
- are left
- double
- half
- share
- addition
- subtraction
- equals
- makes
- pattern
- group
- problem
- solution
- number
- sentence
- blank
- estimate
- compare
- odd
- even
- symbol
- sequence
- match
- sort
- small
- big

Songs/Stories/Games

<https://www.foundationyears.org.uk/mathematical-resources/ten-top-number-rhymes/>

<http://www.teachingyourchild.org.uk/number-songs.htm>

<https://www.youtube.com/watch?v=bGetqbgDVaA> (counting to 100 song)

<https://vimeo.com/109456096> (rap version of counting to 100)

<https://bbc.co.uk/programmes/p065s47t>

Number songs

Two little dickie birds sitting on the wall.

1, 2, 3, 4, 5, Once I caught a fish alive.

One, two, buckle my shoe.

5 little ducks went swimming one day.

5 little speckled frogs.

5 little men in a flying saucer.

5 current buns in a bakers shop.

5 cheeky monkeys swinging through the trees.

10 green bottles.

10 fat sausages sizzling in a pan.

Ten in the bed and the little one said...

Alice the Camel.

- **Stories**
- Nibbles Numbers. By Emma Yarlett.
- Flip Flap Find! Counting. By Violet Peto.
- One Cheetah, One Cherry. By Jackie Morris.
- Sir Cumference and All the King's Tens. By Cindy Neuschwander.
- The Real Princess. A Mathemagical Tale. By Brenda Williams and Sophie Fatus.
- Mr Owl's Bakery. By Ji-hyeon Kim.
- Counting Chickens. By Polly Alakija.
- The Hueys in None the Number. By Oliver Jeffers.
- Ten Little Dinosaurs. By Mike Brownlow and Simon Rickerty.
- Abigail. By Catherine Rayner.
- Usborne Count to 100.
- The Very Hungry Caterpillar. By Eric Carle.
- Over In The Meadow. By Louise Voce.
- One Ted Falls out of Bed. By Julia Donaldson.

- **Games**
- Dominoes.
- Snakes and Ladders.
- Ludo.
- **Orchard Toys Games**
- Incy Wincy Spider (Counting and shape game)
- Counting Mountain (Addition)
- Bus Stop Board Game (Addition & Subtraction)
- Giraffes and Scarves (Counting and colour game)
- One Dog, Ten Frogs Game (Counting and matching game)
- Spotty Dogs Game (Counting)
- Counting Caterpillars Game (Number recognition and colour game)
- The Game of Ladybirds (Counting)
- Frog Party Game (A first addition game)
- Catch and count game
- Cake Monster (Counting)
- Rocket Game (Counting and matching game)
- Dinosaur Race Board Game (Matching and counting)
- Pirate Snakes and Ladders & Ludo Board Game (Number and counting)
- Dirty Dinos (Colour and counting game)
- Cheeky Monkeys Game (Number and Counting Game)

- **Website links**

- www.bbc.co.uk/cbeebies/topics/numeracy
- www.nnparenttoolkit.org.uk
- www.oxfordowl.co.uk/maths-owl/maths
- www.maths4mumsanddads.co.uk/index.php
- www.ilovemathsgames.com
- www.mathsisfun.com
- www.mathszone.co.uk
- www.crickweb.co.uk
- www.mrshrekmsaths.blogspot.co.uk
- www.ictgames.com/resources.html
- www.topmarks.co.uk/maths-games/5-7-years/counting

- **Apps**

- Kids Counting. An app to encourage children to read and use numbers to 20.
- Maths Tree. A simple addition and subtraction app.