

Maths at QEII School;  
*"Beyond the classroom  
walls"*





## **Talk about numbers around you.**

Find numbers in magazines, on the telephone or the remote control. Press the telephone numbers together when using the phone, and read the numbers aloud. Use the TV remote together, point to the numbers and read them aloud as you change the channel.

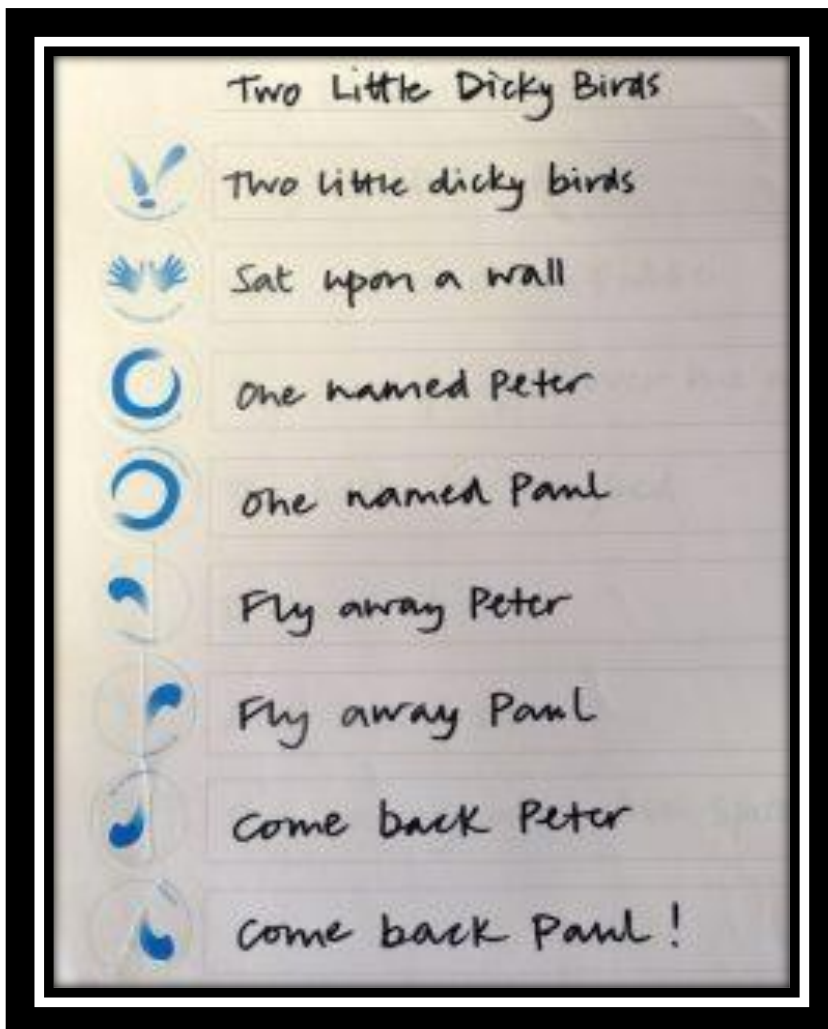
When out and about, point out the numbers you see on front doors and the front of buses. To make this harder, you could choose a 'number of the day' and see how many times you can spot this number around the house, or out on a walk. Try making a tally.

Learning to recognise the shapes of numbers is as important as knowing how to count, so pointing out numbers frequently will help children to become more familiar with them. Pointing them out will also show children that numbers have a real life context.

**Listen to, and sing number rhymes and songs.**

Sing- even if it isn't your strong point! Sing counting songs, such as '10 Green Bottles', '1,2, Buckle My Shoe' and '5 Currant Buns'. Singing songs is a good way for children to become familiar with counting.

Use props such as puppets, toys or print-outs. This helps your child to visualise the items (e.g. the currant bun) being added or taken away.



You can use 'Story Massage' for number rhymes and songs too.

Please talk to your child's teacher if you would like more information on 'Story Massage'.

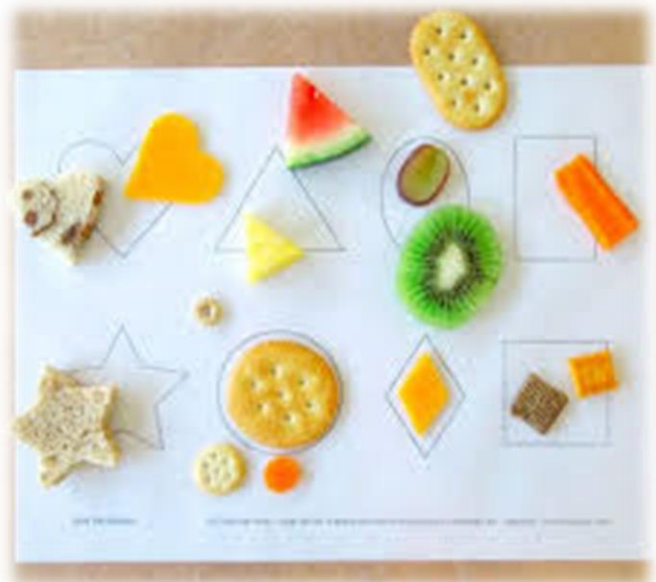
<p>Use everyday situations to develop mathematical language and thinking</p>	<ul style="list-style-type: none"> <li>• Use counting and ordering in everyday situations e.g. climbing stairs, getting dressed, building blocks</li> <li>• Talk about birthdays (dates, months and ages)</li> <li>• Use snack time to discuss amounts and sharing e.g. half, fair, more, less</li> </ul>
<p>Writing numbers</p>	<ul style="list-style-type: none"> <li>• Encourage mark making in a range of sensory materials e.g. flour, custard. Children can experiment with making marks to represent a number</li> <li>• Encourage number writing for a purpose e.g. writing an address, taking a register</li> </ul>
<p>Hand/ Finger play</p>	<ul style="list-style-type: none"> <li>• Encourage children to match their fingers and toes to numbers</li> <li>• Put hands behind backs and count together...one, two, three, four, five...bring out your hands with the correct number showing</li> </ul>
<p>Pretend Shop</p>	<ul style="list-style-type: none"> <li>• Set up a pretend shop- ask your child what they want to sell in the shop to motivate them e.g. food, toys</li> <li>• Use real coins and price objects</li> <li>• Play with your child. Introduce the language of money. Allow them to lead and swap roles.</li> </ul>
<p>Number lines</p>	<ul style="list-style-type: none"> <li>• Make or print number labels for your child to use and refer to in their play</li> <li>• Use string with pegs so your child can explore by moving numbers around</li> </ul>
<p>Read Counting Books together, for example:</p> <p>Dinosaur Dig! By Penny Dale</p> <p>One Mole Digging A Hole by Julia Donaldson and Nick Sharratt</p>	<ul style="list-style-type: none"> <li>• Any book you have at home can be used to develop early counting and number recognition skills. Count objects on the page, and compare the number of objects from page to page.</li> <li>• Look at the page numbers and say them together.</li> </ul>

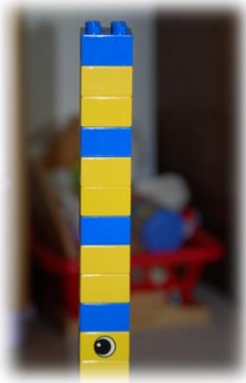
## Shapes - in an around the home

Provide shape hunts inside and outside

Encourage building using blocks, construction kits, recycled materials

Put different shaped objects into a feely bag and guess what shape it is from the feel





## Patterns

Practice pattern making skills using any type of construction bricks (e.g. wooden blocks, LEGO, duplo, megablox).

- Practice stacking the blocks
- Create patterns using 2, 3 or 4 different colours
- Draw a pattern for your child to copy and match
- You could also make patterns with objects from around the house, or that you collect from the garden
- Patterns can be great with food/sweets too.



## Smarties Fractions

Count how many Smarties of each colour you have in the tube. Draw the correct number of Smarties in each circle to show this.

Red	Yellow	Blue
Purple	Pink	
Orange	Green	Brown

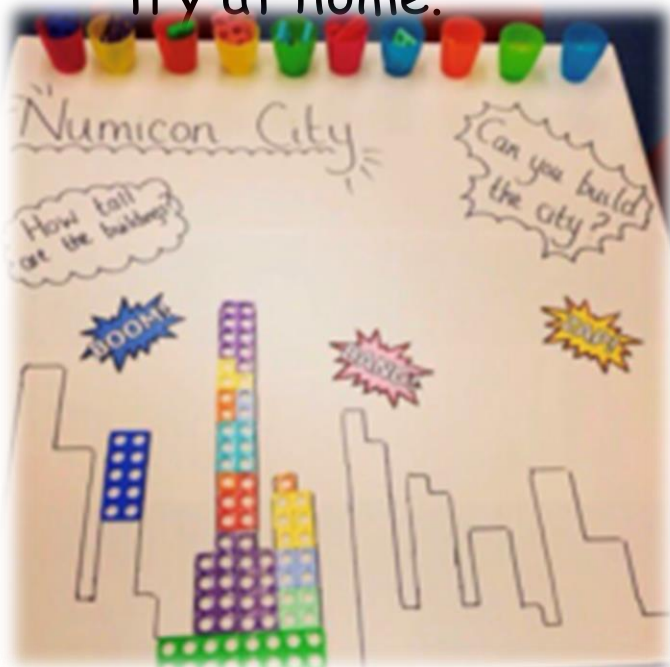
How many do you have altogether?



# Numicon



- We use numicon as a maths resource throughout the whole school from large foam pieces, to smaller pegs. All of the children love to use it as it is tactile, concrete, colourful and helps with numbers, patterns and finally calculations.
- Numicon can be purchased on Amazon or we can lend you some from school.
- Here are some numicon ideas that you could try at home.



# Making and baking with Numicon



NUMICON  
biscuits





<p>Positional language games</p>	<ul style="list-style-type: none"> <li>• Use whatever toys or objects motivate your child e.g. toy dinosaurs, teddies</li> <li>• Talk about position- where is it?</li> <li>• Model positional language e.g. behind, inside, on top, in front of</li> </ul>
<p>Matching and sorting games</p>	<ul style="list-style-type: none"> <li>• Encourage your child to match, categorise and sort with a wide variety of natural objects, materials and toys.</li> <li>• Sort by size, colour and shape</li> </ul>
<p>Exploring weight</p>	<ul style="list-style-type: none"> <li>• Cook using spoons and cups as measures, as well as kitchen scales</li> <li>• Weigh yourself and objects with bathroom scales</li> <li>• Encourage thinking about weight in everyday situations e.g. mine is heavier, are they the same weight?</li> </ul>
<p>Exploring time</p>	<ul style="list-style-type: none"> <li>• Give your child opportunities to measure time e.g. use a sand timer to measure 2 minutes of teeth brushing, use the iPad timer</li> <li>• Set a timer when cooking</li> <li>• Discuss times of the day e.g. morning, '5 minutes time', talk about yesterday/today/tomorrow</li> </ul>
<p>Exploring and measure</p>	<ul style="list-style-type: none"> <li>• Use objects (non-standard measures) to measure length e.g. the chair is 6 spoons long</li> <li>• Provide standard measures too e.g. rulers, tape measures for exploration</li> </ul>
<p>Bath time capacity</p>	<ul style="list-style-type: none"> <li>• Provide different size containers, jugs, funnels etc for filling and pouring</li> <li>• Model language e.g. empty, full, half full, empty</li> </ul>