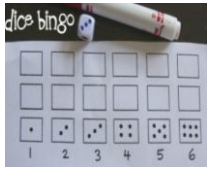
St Mary's ELC Home Learning-Mathematics

I can explore measurement through play (construction, baking etc..) ***I can explore objects and use language of measure long/short, large/small, full/ empty, heavy/light.*** ***I can compare sets of objects , e.g. more/less, long/longer/longest, etc*** ***I can sequence a set of objects by height, length, weight, capacity.*** Create a tower/ bridge/ train/house etc. using construction items such as lego or blocks. Bake a cake using the language of measurement. Estimate objects and check how heavy they are using weight scales. Use a measuring tape, your feet or hands to measure objects you have created. Put the objects in order from heaviest to lightest and longest to shortest. Compare two, ''I wonder which is heavier?'' Big/Small & Tall and Short: https://www.topmarks.co.uk/early-years/lets-compare Heavy, Same Weight, Light: https://pbskids.org/peg/games/happy-camel Comparing Capacity & Counting https://education.abc.net.au/res/i/L1994/index.html	***I can count items in a row using 1:1 correspondence.*** ***I can count a group of items using 1:1 correspondence.*** ***I can count out two groups of items.*** ***I can estimate within my number range.*** Count the number of grapes for snack. Count how many shoes in a row etc. Make sure the items are in a row and the child is pointing to each item. Start with 1-5 and then progress to 1-10. Encourage children to estimate ''How many do you think there might be?'' and then encourage them to check their answer by counting. When estimating start with small amounts such as 2 to 5 items. https://www.topmarks.co.uk/maths-games/3-5-years/counting (There will be lots of opportunities throughout the day for counting)	***I can divide a whole object into smaller parts.*** ***I can divide a whole object into two or more equal parts. e.g. using dough. I can share food/toys etc. among more than two teddies/children etc…*** ***I can share food/toys etc. between two teddies/children etc…*** Make play dough. https://www.bbcgoodfood.com/howto/guide/playdough-recipe Cut the play dough into two parts. Compare the two parts, ''Are they the same size?'' if so, the two parts are 'equal', they are the same size. Have a tea party for your teddy bears and share the treats you have created equally. Check to see if everyone has the same amount.	***I am aware of numbers and use them in my play.*** ***I can say numbers to 5, 10, 15, 20 & beyond (including 0).*** ***I can say numbers backwards from 5, 10, 15, 20 and beyond (including 0).*** ***I can count on from a number within 5, 10, 15, 20 (including 0).*** ***I can count back from and to a given number (count back from 9 to 3).*** Count how many swings/steps/jumps. When playing a game, set a timer and count backwards. *(Lots of games can be adapted to include counting.)*
I can sequence numerals to 5, 10, 15, 20 & beyond. ***I can work out the missing number within 5, 10, 15, 20.*** Cut numbers out and put them in the correct sequence. Look for numbers in the environment that are in a sequence. Sequencing: https://www.topmarks.co.uk/ordering-and-sequencing/caterpillar-ordering Whilst a numbers are in a sequence and the child is not looking, take one/ two away, what is the missing? Missing numbers: https://pbskids.org/curiousgeorge/busyday/apples/	***I can explore, match and sort *objects, *shapes using one or more criterion.*** Sorting by Colour https://pbskids.org/sid/games/sorting-box Sort by Shape https://www.topmarks.co.uk/early-years/shape-monsters	***I can recognise some numerals in my environment.*** ***I can identify numerals to 5, 10, 15, & 20.*** Go on a numeral hunt. Play 'I spy'- ''Can you find the number 3?'' Find the number... https://www.topmarks.co.uk/learning-to-count/helicopter-rescue https://www.topmarks.co.uk/learning-to-count/blast-off	***I can join in with number rhymes /stories.*** ***I can use my fingers to represent numbers within rhyme, song or story.*** ***I can use fingers, songs and rhymes to count backwards and take away.*** 1, 2,3, 4, 5 Once I Caught a Fish Alive: https://www.youtube.com/watch?v=--BhTBXdc1o *5 Little Monkeys:* https://www.youtube.com/watch?v=TPuZKw3ND-0 *5 Little Duck:* https://www.youtube.com/watch?v=F2OpkQuOjig 10 green bottles: https://www.youtube.com/watch?v=Ak7kedzR8bg

I can use a range of positional language in play - under/over, beside, in, out etc… ***I can follow simple directions forwards and backwards, up and down etc*** **I can** ***give simple directions such as forwards/backwards, up/down*** Dance the Positional Song https://www.youtube.com/watch?v=XfLjhLiR-mA Make up your own moves to Wake Up and Shake Up: Children to give simple dance moves/directions for families to copy. Put the moves to some fun music.	***I can explore symmetrical pictures and patterns.*** ***I can recognise simple symmetrical pictures and patterns.*** ***I can create simple symmetrical pictures and patterns.*** https://www.topmarks.co.uk/symmetry/symmetry-matching https://www.topmarks.co.uk/symmetry/symmetry-sorting	***I can use fingers & objects to make numbers up to 5/10 in different ways.*** ***I can match numerals to amounts up to 5/ 10 and beyond.*** ***I can use*** **fingers and objects to represent doubles i.e., 2 & 2, 3 & 3 to a total of 10.** Play Finger Doubles. Making numbers with fingers. ''Can you make 3 in a different way?'' https://www.topmarks.co.uk/learning-to-count/ladybird-spots (Lots of opportunities throughout the day to make numbers and match numerals to amounts.)	***I can use money within play.*** ***I can sort money by type of coin.(1p-10p)*** ***I can talk about different coins (shape, size, value)*** https://www.topmarks.co.uk/money/toy-shop-money (counting just 1p coins) Set up a shop for role play, this can be an ice-cream shop, book shop, vegetable shop, sweet shop etc. Get them to pay for their morning snack using 1p coins. Coin rubbings. Sort the coins by type (1p to 10p)
I can explore a simple pattern. ***I can copy a simple pattern.*** ***I can continue a simple pattern.*** ***I can create a simple pattern.*** Complete the Pattern: https://www.topmarks.co.uk/ordering-and-sequencing/shape-patterns https://pbskids.org/arthur/games/planet-pal	**I can identify when different events happen during the day.** **I am aware that time can be measured e.g. using sand timer, clock……** Plan your day and draw a visual timetable. Plan a list of chores and when they are to be completed e.g. setting the table. Use timers to tidy up/brush your teeth/wash your hands or to share toys with a sibling. Make your own clock.	***I can help collect and display objects by type.*** ***I can ask simple questions to gather information, (favourite book, food, etc..)*** ***I can talk about the information that has been collected and displayed.*** Collect and Display. http://toytheater.com/fruit-fall/ Ask a family what their favourite colour is or favourite fruit etc. Make a pictogram to display your information. Ask questions, ''Who likes..?''. ''How many like...?'' What is the most popular choice?'', ''What is the least popular choice?''	***I can join in with games using a dice.*** ***I can count dots on a dice.*** ***I recognise dots on a dice without counting.*** Play dice bingo. Roll a beetle. *(Lots of games can be adapted to include dice*.)

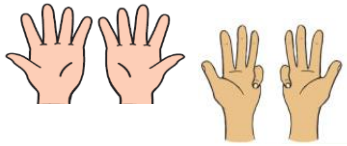
Maths Games/Resources

Dice Bingo

Roll a Beetle

Finger Doubles



Show me....

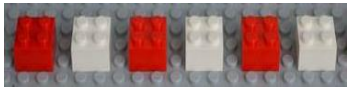
2 & 2/ 3 & 3/ 4& 4 and 5 & 5

DIY Measuring Scales

Counting Through Play

Making Patterns





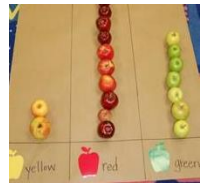
Visual Clock

Snack Shop

Coin Sorting & Coin Rubbing


(Up to 10p)

Pictograms

Shape Sorting


Making Numbers in Different Ways