

MATHS IN EYFS

How to support your child at home?

Aim of the session

- To understand the different maths skills that will be taught in EYFS
- To share ideas on how to support your child at home



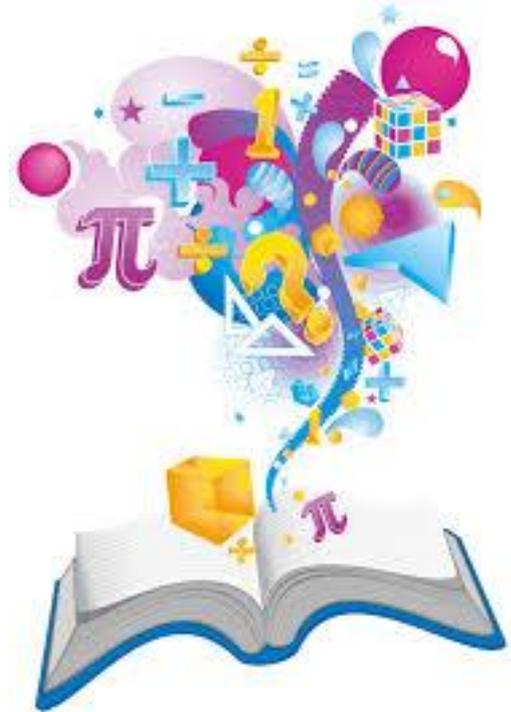
Why is maths important?

- ❑ To solve problems and make sound decisions
- ❑ To solve calculations with ease
- ❑ To explain how we solved a problem and why we made a particular decision
- ❑ To understand patterns and trends so that we can make predictions
- ❑ To understand time and money
- ❑ To handle everyday situations that involve numbers



Maths curriculum coverage

Number	Shape, space and measure
Counting	Patterns
Ordering	Shape
Number recognition	Size
Addition	Position
Subtraction	Time
Doubling	Money
Halving	
Sharing	



Early Learning Goal

By the end of Reception....

Number

Children should be able to 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. Children should be using quantities and objects, they should add and subtract two single-digit numbers and count on or back to find the answer. They should solve problems, including doubling, halving and sharing.

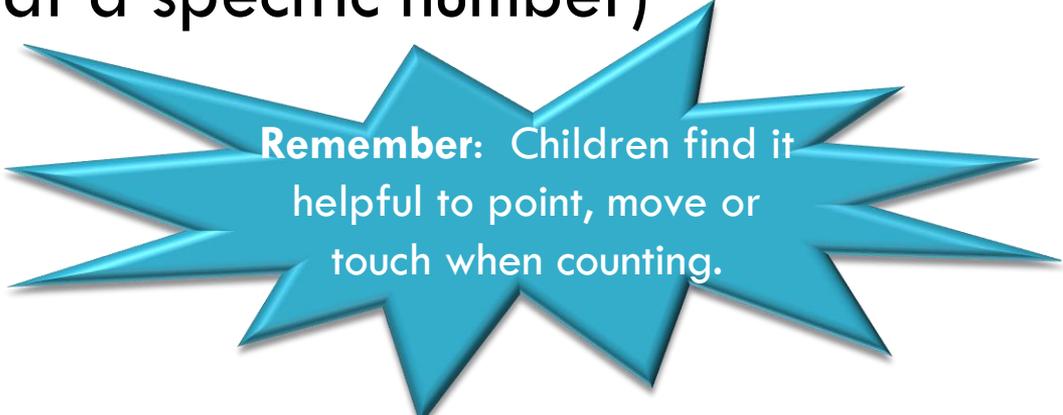
Shape, space and measure

Children should use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. They should recognise, create and describe patterns. They should explore characteristics of everyday objects and shapes and use mathematical language to describe them.

Helping your child

Counting

- ❑ One-to-one correspondence counting (count one object at a time)
- ❑ Cardinality (knowing when to stop counting at a specific number)

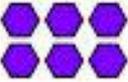


Remember: Children find it helpful to point, move or touch when counting.

Counting ideas

- Have your child count anything they are interested in counting e.g.. items of clothes as they come out of the washing machine, toys, kitchen utensils, collections e.g.. stickers, rocks, cars etc.
- Mix it up! Have your child count a set of objects but start at different places e.g the middle of the set rather than the beginning so they understand that the total is always the same.
- Sing counting songs and use counting in meaningful ways in games such as hide and seek. Sing songs that allow children opportunities to count forwards and backwards.
- Have your child skip count (eg counting in 2s, 5s or 10s) to count larger groups of items quickly e.g. pasta pieces, buttons, toothpicks.

Quantities and numbers

1 one 	2 two 	3 three 
4 four 	5 five 	6 six 
7 seven 	8 eight 	9 nine 

- As children count, they learn to connect quantities (such as five buttons) with their number names (such as the word five) and symbols (such as 5). How to help at home:
- Play a number version of I Spy. For example, “I spy something that has the number five on it,” or “I spy something in this room that there are three of.
- Develop your child’s awareness of the symbols that represent numbers by making it a game e.g. look for number symbols in your home and when out and about.
- Encourage children to record ‘how many?’ by using a combination of numbers and pictures.

Problem Solving

Try and involve your child in using numbers to solve problems.

- “We need six tomatoes to make our sauce for dinner, and we only have two. How many more do we need to buy?”
- “How many sweets do you have altogether?”
- “Two guests are coming to eat dinner with us. How many plates will we need? How many knives, forks and spoons do we need?”



Remember: Encourage your child to talk about and show maths problems in a way that makes sense to them— for example, your child may act it out, use the actual materials, draw it or count on his or her fingers!

How to help your child

Shape

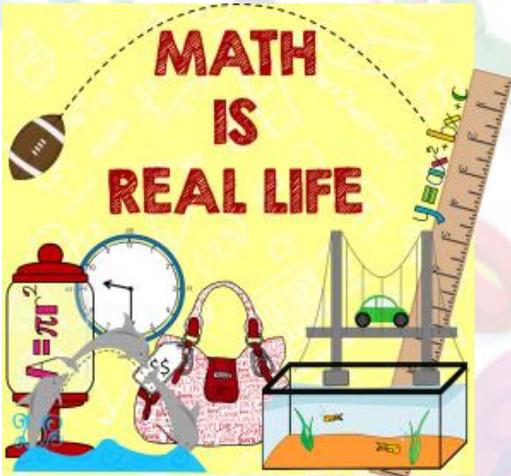
- When talking with your child, identify things by their shape and size: “Please pass me the rectangular placemat, the largest box out of the cupboard, the square-shaped cracker and the circular plate.”
- Ask your child to look for two-dimensional shapes, such as circles, squares, triangles and rectangles, on objects at home or outside. For example, help your child find various shaped street signs and name the shapes that are on them.
- 3-D Hunt. Help your child look for three-dimensional objects: cubes, cones, spheres (such as a ball), prisms (such as a box), pyramids and cylinders. Talk about how a can or a paper towel roll is like a cylinder.
- Play I Spy with your child by asking him or her to guess an object you identify by its shape: “I spy something that is round,” “I spy something that has a cylinder shape.” Make this game more challenging by stating two shapes: “I spy something that is round and has a square on it.”

How to help your child

Money

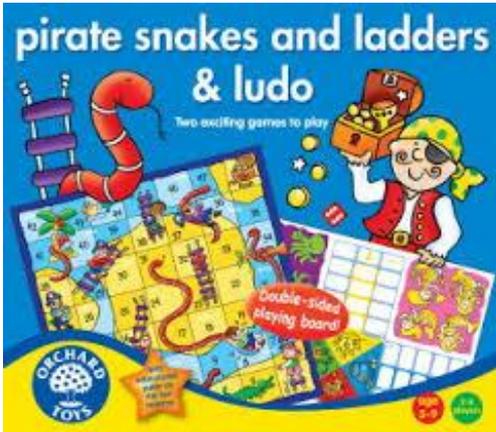
- ❑ **Play the coin game.** Together, trace around coins and colour in the shapes. Ask your child to match the coin to the image and talk about each one's name. (Note: toddlers may try to swallow coins, so always keep an eye out!)
- ❑ **At the shops** - ask them to guess how much a couple of items will cost. Give them small amounts e.g. 20p, - what can they buy? Talk about the items you buy - which are more expensive, which are cheaper? Which are heavier, which are lighter?
- ❑ **Play shops** - make some pretend money (or use Monopoly money) for your play shop, and use items from all over the house as shop items. By 'buying' things with play money, your child begins to understand that different things need different amounts of money.

Maths EVERYWHERE!!



- Go on a shape hunt – how many circles, squares, rectangles, triangles can your child find? Are they 2D or 3D? You can look for patterns too.
- Play games that use counting - Hopscotch, Hide and Seek, What's the Time Mr. Wolf, Skipping, Hula Hooping.
- Get dancing - create patterns by making up short dances, or rhythms using your body (e.g. clap, clap, stomp, belly slap, and repeat).
- Play sport! Sports are the perfect chance to talk about speed, scores, time and angles. Get competitive - how many goals/points can your child score? How many can you score?
- Look for numerals... on doors, buses, cars, signs, at home, at the shops... anywhere. Remember to talk about what the numbers mean.
- Count anything – how many lampposts are on our street? How many houses have a red door? How many dogs can you count in a day?
- Talk about time - for example, how long does it take to walk to the shop, or to school?

Games



- ❑ Board games – Snakes and ladders, Ludo
- ❑ Card Games – Snap, memory pairs, Uno, sorting real cards.
- ❑ Other games – Connect 4, Jenga, Honey Bee.
- ❑ Jigsaw puzzles
- ❑ Construction – Lego, K-Nex, Meccano, Sticklebricks



Cooking is maths too!

Cooking is a fun and enjoyable way to incorporate math into every day life.

Cooking activities will allow opportunities to:

- ❑ Count e.g.. How many spoon full do we need?
- ❑ Recognise numerals eg. when reading a recipe together
- ❑ Understand more/less eg. How many more tomatoes do we need?
- ❑ Understand capacity eg. add half a cup of water
- ❑ Understand weight and use scales for measuring eg. add 10g of butter

Songs and Rhymes

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- ❑ Children often first learn about numbers and counting through rhyme – they learn the pattern of words before they understand the meaning of the words and concepts.
 - ❑ Songs and rhyme are an important way for all children to learn about number order, forwards and backwards, counting and calculating.
 - ❑ Using actions, fingers or objects when singing will help children develop skills even further, for example they could also learn to match quantity to numeral and have opportunities for counting rather than just reciting in order. For example:
 - ❑ 1,2,3,4,5 – number names, counting/ordering forwards to 10
 - ❑ 10 in the bed – counting backwards from 10
 - ❑ 5 little ducks – subtraction

Websites

- **Mathletics**
 - <http://www.mathletics.co.uk>
- **Cbeebies for grown ups**
 - <http://www.bbc.co.uk/cbeebies/grownups/help-your-child-with-maths>
- **Sesame Street maths**
 - <http://www.sesamestreet.org/parents/topicsandactivities/topics/math>
- **Youtube for number stories, rhymes and songs**
 - <https://www.youtube.com/watch?v=a94AbkgVzpE>
 - <https://www.youtube.com/watch?v=WTeqUeif3D0>

Questions?

Time to
explore!!!

- Please ask if you require any help or if something was unclear.

