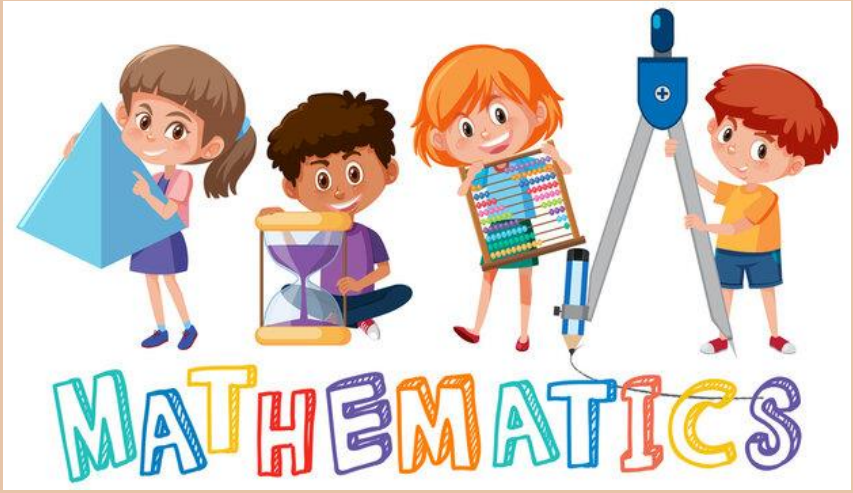
Welcome to

Maths in the Early Years!



Family workshop

Aims of this workshop

- Share with you some of the things your child is learning in school
- Improve your confidence in helping your child with maths

What is Maths?

- A large part of maths is about numbers, but maths involves more than just numbers. It includes numbers, measuring, statistics, and shape and space. At school children learn about all of these.

Maths in Early Years

- An Early Years teacher will plan for the children to learn maths through play, as well as through direct teaching.

- Mathematical learning will be through stories, songs, rhymes, games, sand and water, using building blocks and construction toys, imaginative play, outdoor physical games, and making things with paints, materials, scissors and glue

Early Learning Goal

Maths	**Number**	• Have a deep understanding of number to 10, including the composition of each number. • Subitise (recognise quantities without counting) up to 5. • Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.
	Numerical Patterns	• Verbally count beyond 20, recognising the pattern of the counting system. • Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. • Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

What about Maths lessons?

These happen daily when the whole class gather together.

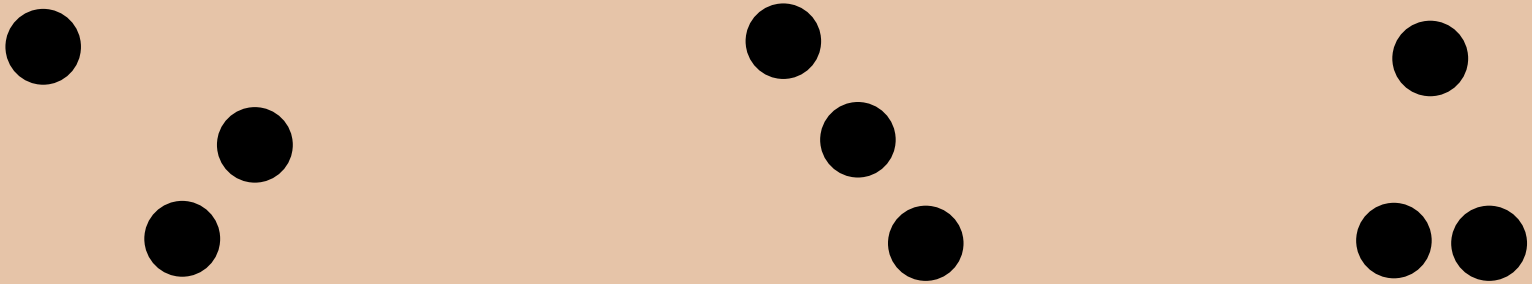
We often start with a warm up focussing on maths fluency e.g. Counting forwards and backwards, subitising amounts

The teacher will then introduce or continue the main maths theme of the week, and teach the children to develop their skills.

Subitising

Subitising is the ability to recognise a small quantity of objects without the need to count.

Sometimes when we subitise we can see two groups at once; if we know that 3 can be 'made' of 2 and 1, then we know how many there are altogether without counting.



How will knowing how numbers are 'made' help?

If children know that 4 can be made of 3 and 1, they can apply this knowledge later on to see that:

30 and 10 is 40

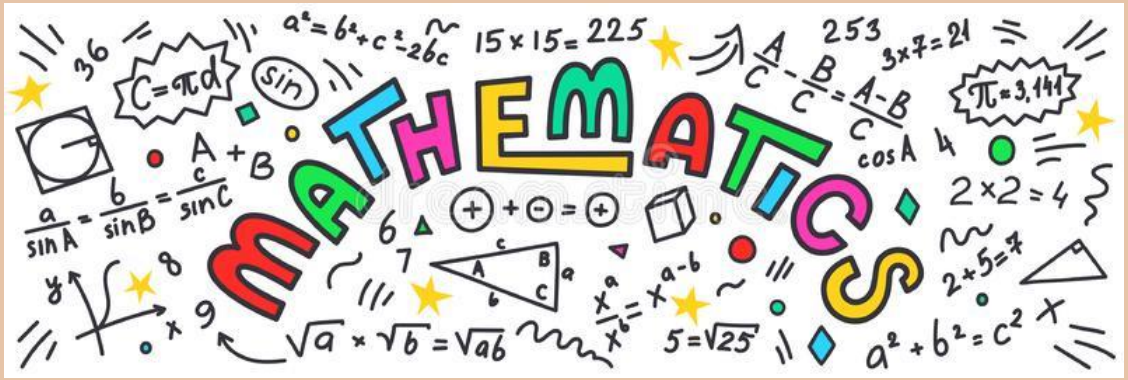
300 and 100 is 400

and that;

400 take away 100 is 300

Maths Mastery

Mastering maths means children acquire a deep, secure and adaptable understanding of maths. It embeds a deeper understanding of maths by utilising a concrete, pictorial, abstract approach so that children understand what they are doing rather than just learning to repeat routines without grasping what is happening.

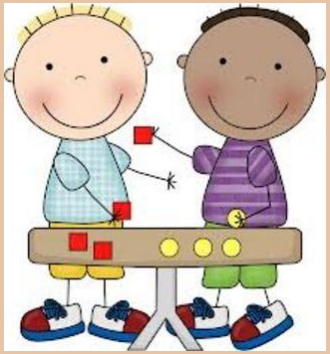


Problem Solving

Mathematical problem solving is at the heart of our approach. Children are encouraged to identify, understand and apply relevant mathematical principles and make connections between different ideas. This builds the skills needed to tackle new problems, rather than simply repeating routines without secure understanding.

Reasoning

Teaching for mastery involves carefully designed questions to enable children to explain the mathematics in full sentences with the correct vocabulary. They should be able to explain how they know the answer is correct, not just what it is.

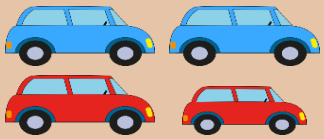


Developing good number sense is an important part of maths mastery.

Some of the things they are learning include:

Counting

Recognising small numbers of objects and making their own collections



Know different ways to 'make' (compose) a number

What is 1 less than 6?

Can you share it equally?

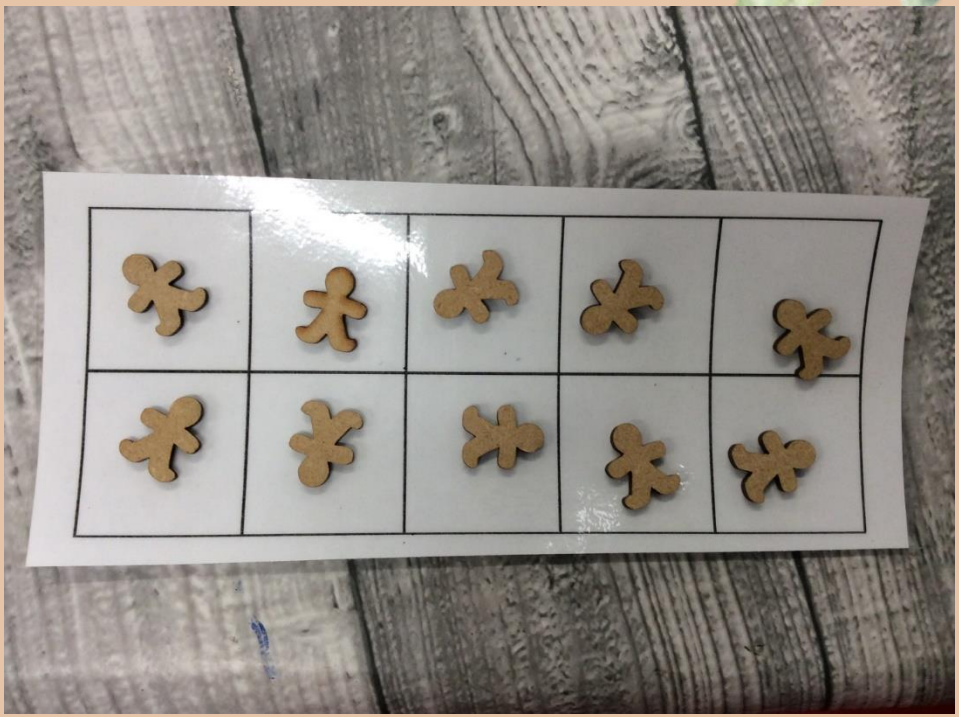
5_7

3+3=

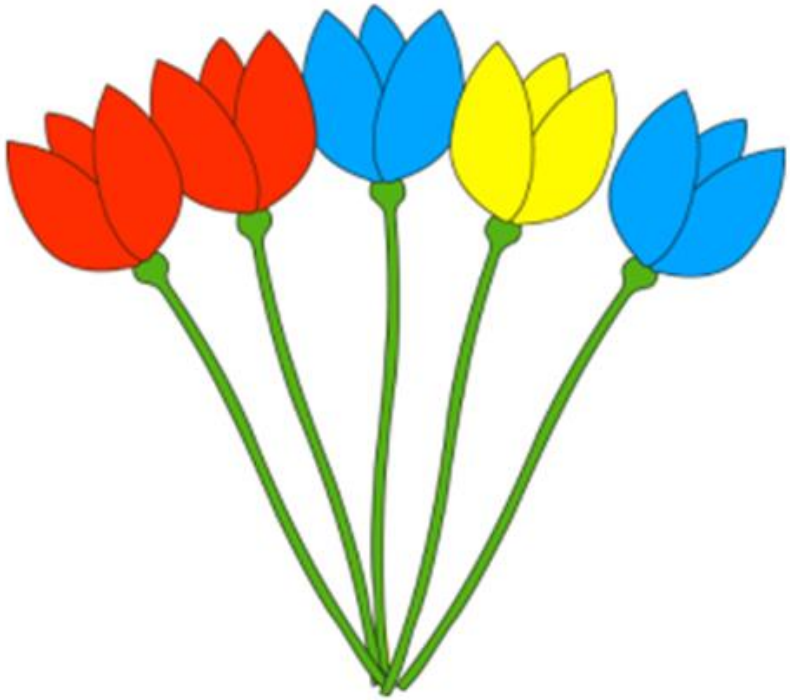
How can you show 6?

7-1=

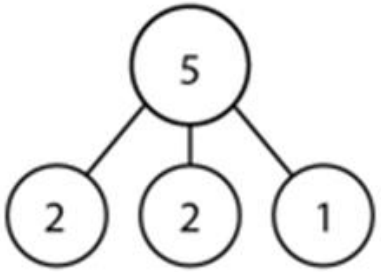
What is 1 more than 6?



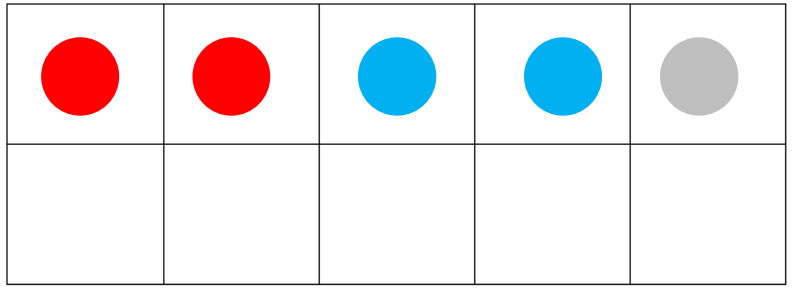
The sly Fox ate four gingerbread men. He thinks there will be six left for him to eat another time. Is he right? Let's find out...



'There are five flowers. Two are red, two are blue and one is yellow.'



'Five is the whole; two is a part, two is a part and one is a part.'



2 + 2 + 1 = 5

Maths Challe
0
zero
1
one
2
two
3
three
4
four
5
five
Stem Sentence
Can you show different ways to make 15?
Vocabulary
number
how many?
count
more
less
0 to 20 Number Line
15
10
5

Christmas
I Spy and Count to 10
Christmas
I Spy and Count to 10

How can you help?

Home:

- Games: 'Snakes & Ladders', Dominoes - Invaluable for developing number sense
- Setting the table, how many people, how many knives, etc.
- Sorting the washing by size, colour etc.
- Can you cut your toast into squares, triangles, in half?
- Pocket money – coin recognition, shopping
- Maths through songs , rhymes and stories
- I Spy (shapes, colours, size,)
- Talk maths
- Lots of apps and websites aimed at making maths fun

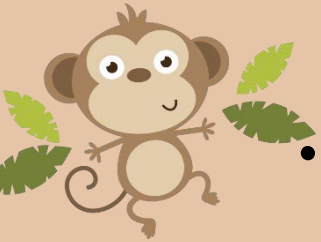
How can you help?

Outdoors:

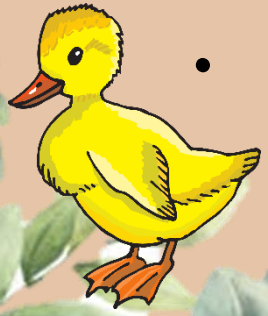
- Outdoor games - Hop Scotch, Hide and Seek , Den Building, Hunt the number...
- Estimating - leaves on a branch, conkers in a pile, how long it will take to run up the garden and back...
- Compare/order by size/weight/length/ capacity - leaves, twigs, stones, shells, sand water...
- Look for patterns/ shapes - fencing, roofing, buildings...
- Environmental numbers - car number plates, house numbers, buses...
- I Spy (shapes, colours, sizes)
- Talk maths

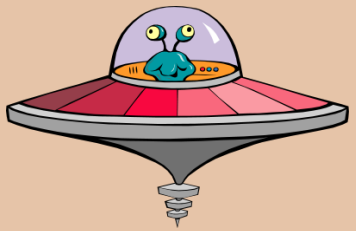
- Maths is everywhere! Enjoy it and so will your child!

Songs and rhymes to help with maths



- Ten Green Bottles
- 5 Little Monkeys
- 1,2 Buckle my Shoe
- 1,2,3,4,5 Once I caught a Fish Alive
- 5 Little Speckled Frogs
- 5 Little Men in a Flying Saucer
- 5 Little Ducks





Things to think about...

- Be encouraging , even if they are wrong

(Oh I see what you are thinking but ... rather than... no, that's wrong)

- Don't associate maths with speed

(This can lead to maths anxiety, especially in girls)

- Never share the idea that you were bad at maths at school or you dislike it

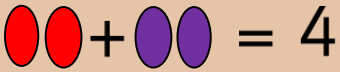
(Maths achievement has been shown to drop, particularly when mothers share this with daughters)

- Think about the praise you give

(I like how you worked that out... rather than... You are so clever at maths)

- Remind children that 'mistakes' grow their brain

Maths ideas with a box of Smarties!

- Estimate how many are in the box
- Sort for colour
- How many of each colour? (More/fewer)
- Addition/subtraction of colours  = 4
- Division (sharing)
- Count in 2s, 5s, 10s
- Repeating Patterns

Maths Websites

There are lots of free websites for your child to enjoy in many ways for all curricular areas. Here are just some with some maths ideas.

www.bbc.co.uk/schools

www.bbc.co.uk/cbeebies

www.ictgames.com

www.topmarks.co.uk

Please supervise your child whilst on the internet and keep them safe at all times.