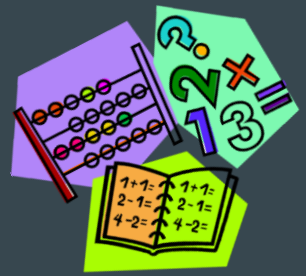
P2-3 Numeracy Workshop

Meet the Teacher Event
Thursday 24th August



Mathematics is more than just becoming familiar and fluent with number, mathematics capability includes:

- **The ability to model real-life situations and make connections and informed predictions;**
- **Being equipped with skills to interpret and analyse information, simplify and solve problems, assess risk and make informed decisions;**
- **Being open to new ideas and alternatives, and appreciative of the importance of evidence, critical reasoning;**
- **Being curious, imaginative and diligent**

Maths in P2 & P3

- In Nursery and Primary 1, your child will have worked through the Early Level planner. In Primary 2 and 3, pupils continue working through First Level which continues until they are in Primary 4.
- Building solid Numeracy skills is crucial in the early years of primary school.
- Your support in this is vital to ensure your child has the important building blocks in place to help them progress through the curriculum.

What will your child learn in P2 & 3?

- Addition & Subtraction
- Months of the year
- Whole numbers to 100
- Measure
- Data Analysis
- Money
- Time
- Place Value
- Estimation & Rounding
- 2D and 3D Shape
- Symmetry
- Fractions (halves, quarters)
- Multiplication
- Division (sharing equally)

Playful approach to Numeracy

Children of a young age learn best when doing and taking part.

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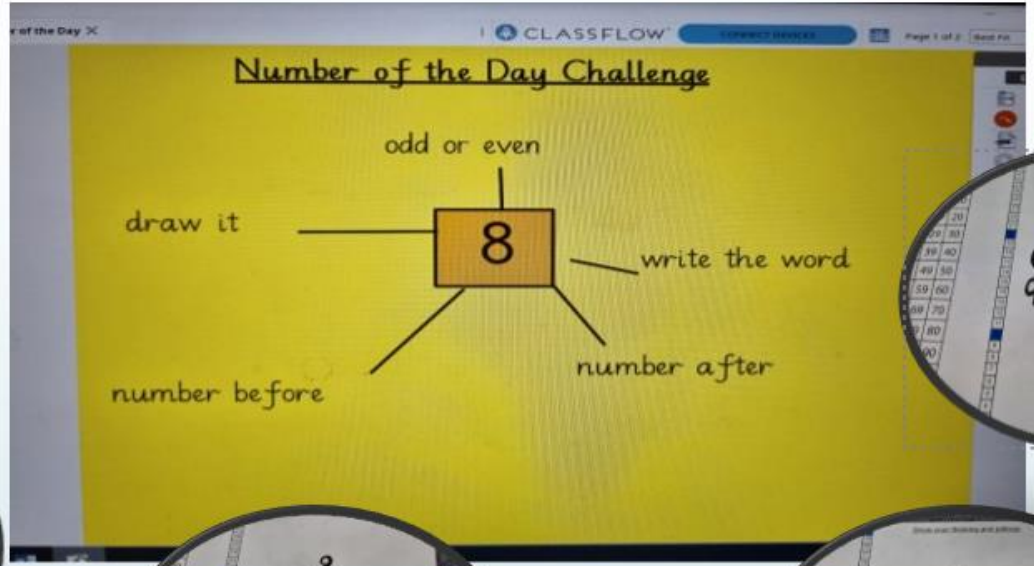
A playful approach allows children to develop transferable skills which they can use throughout their lives.

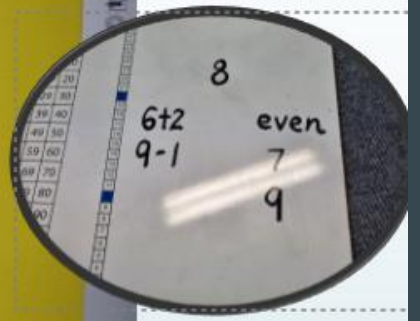
Numeracy lends itself well to promoting a playful learning environment where children are using concrete materials to develop their skills.

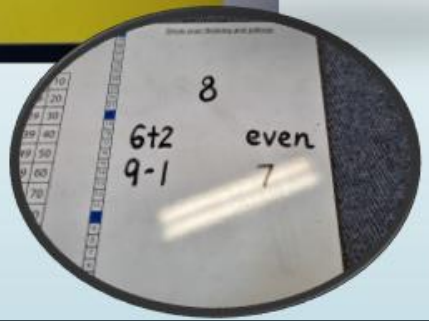
Examples

- Fishing game
- Loose parts
- Cupcake cases
- Peg the number
- Cubes and blocks
- Shapes
- Measuring tapes
- Model making
- shop / money
- Numicon
- Dienes material

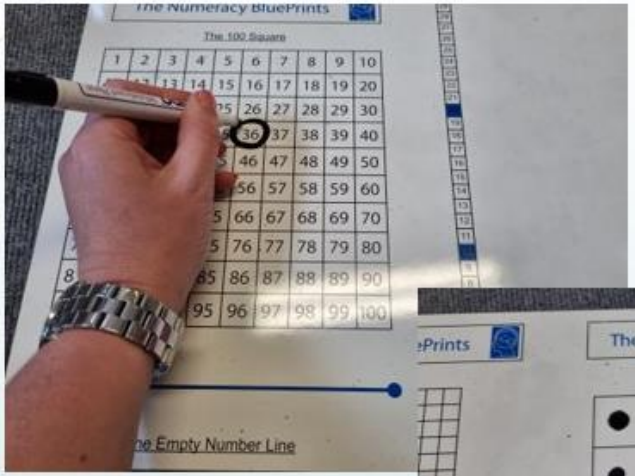
Introduction: Mental Maths



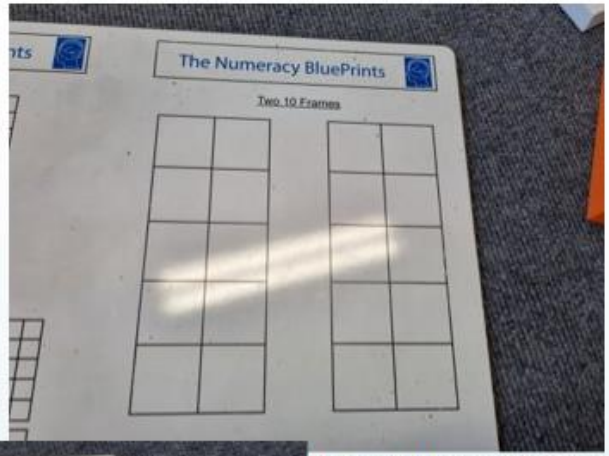




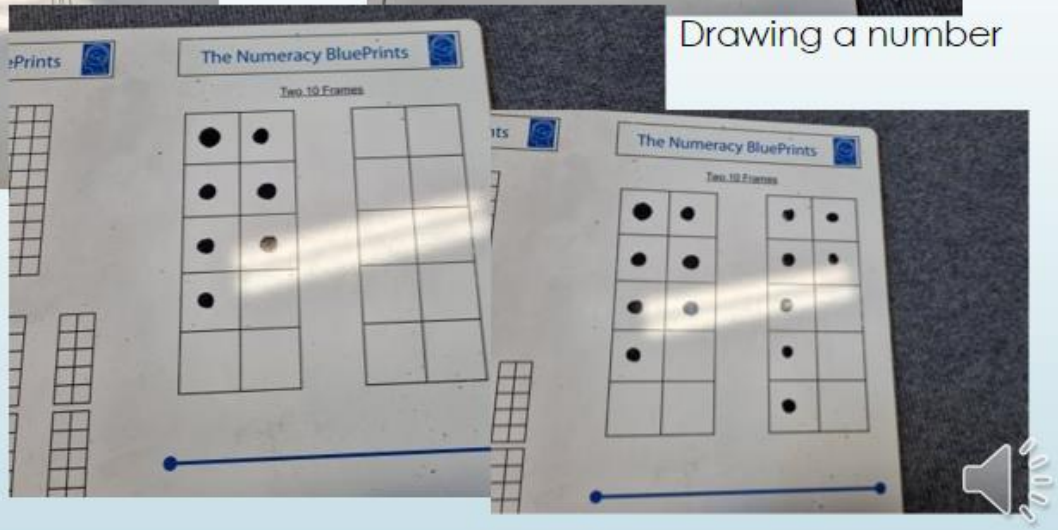
Blueprint Boards



Think of a number…



Drawing a number



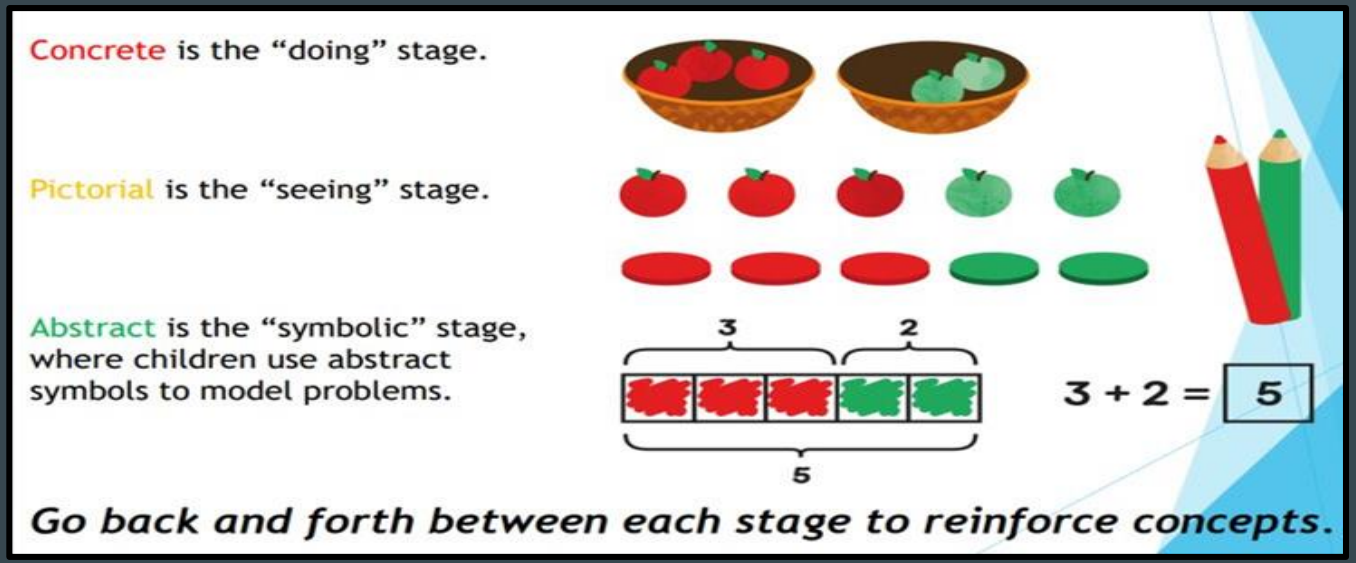
Number Talks

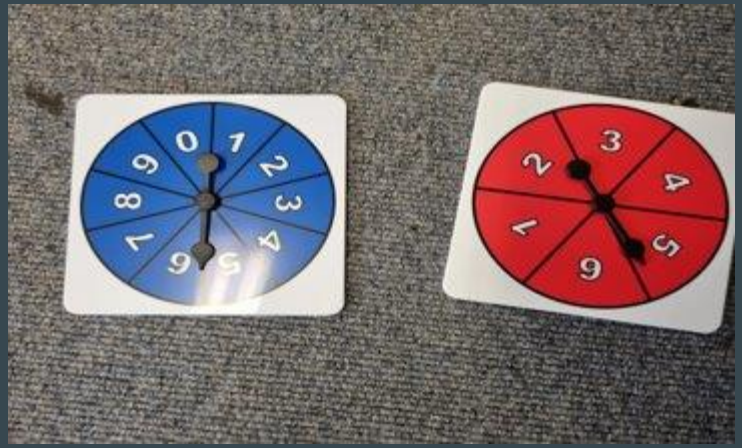
- Number Talks are a good way to help children to be confident in talking about the numbers they are working with.
- Encourages pupils to think about how they got to an answer, how they visualise different numbers etc.
- Progressing on to explaining what strategy they used to answer a calculation.

Concrete, Pictorial & Abstract

Children can find maths difficult because it is abstract. The CPA approach builds on existing knowledge by introducing abstract concepts in a concrete & tangible way.

It involves moving from concrete materials to pictorial representations, to abstract symbols and problems.





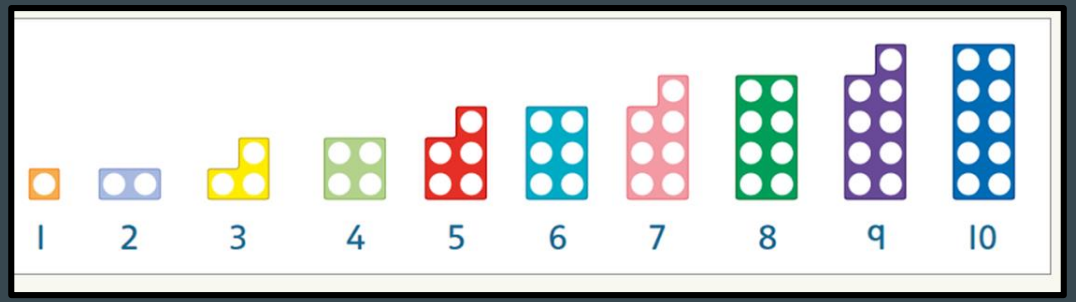
Numicon

A brilliant resource for introducing children to the place value of numbers

Helps children to see the connection between numbers

Good for visual learners

Useful to help children understand the value of money



Transforming attitudes to Numeracy and Mathematics

In 2016, the Making Maths Count Group set out their intention to turn Scotland into a maths positive nation. This was in response to their research which showed that, as a country, we are too happy to label ourselves as “no good with numbers”, and this attitude is holding back real progress.

If we reflect on our own school experience, or that of our parents, it may be easy to see how this attitude developed. A focus on rote learning and one method solutions, led to many people developing a dislike for the subject. Many children grew into adults who become anxious at the thought of maths and that is why we need to, not just change, but transform attitudes toward maths.

St Ninian's Common Methodology

- Across the cluster, we follow the St Ninian's cluster common methodology which ensures a consistent approach to teaching Maths.
- We have developed 4 guides for parents which explains the way that Subtraction, Division, Multiplication and Algebra are taught in the primary setting.
- These are all available on our school website to download.

Activities you could try at home

- Board games can help to teach children about numbers. Popular games can be fun and will help build confidence.
    - Snakes and Ladders,
    - Monopoly,
    - Scrabble,
    - Card games,
    - Dominoes,
    - Computer games
- Play calculator games to see who can add or take away numbers quickly.
- Play 'Countdown' games – think of a large number and, using a calculator, try to get to that number in the least number of steps, using multiply, divide, add or subtract.
- Give a range of 4 numbers and try to make the highest number from them using add, subtract, multiply and divide.
- Compare the temperature in other countries with that in Britain. Use subtraction skills to find the difference in temperature.
- Choose the telephone numbers of known relatives and subtract them. E.g. Subtract Gran's phone number from our phone number.
- Play mental maths games to add or subtract multiples of 10 and 100.