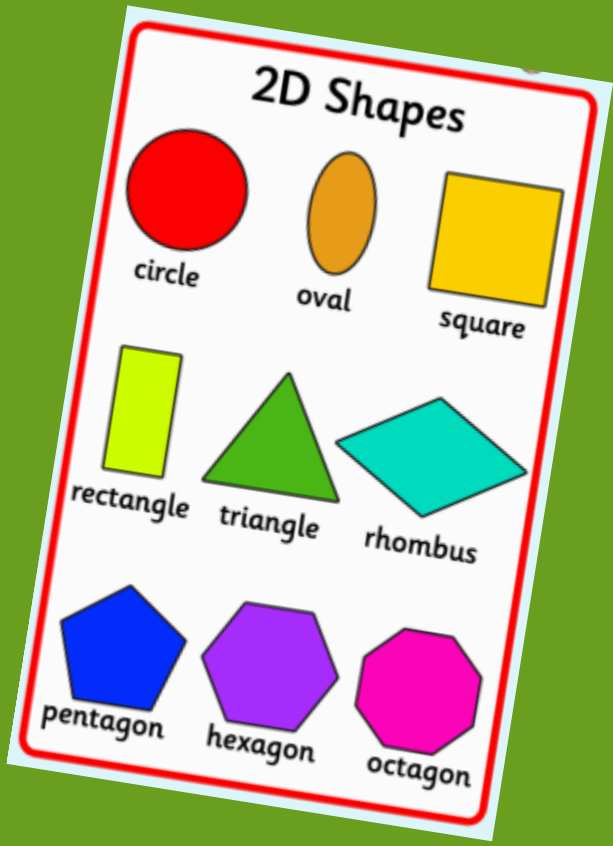
MARVELLOUS MATHS WORKSHOP



Stanford Infant School

Thursday 23rd January 2025

OUTLINE OF TONIGHT

- A brief overview of the Maths Curriculum from EYFS to Year 2.
- Maths Mastery
- Year group sessions

Foundation Stage

- Develop a strong grounding in number so that all children develop the necessary building blocks to excel mathematically.
- Count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers.
- Develop a secure base of knowledge and vocabulary from which mastery of mathematics is built through frequent and varied opportunities.
- Opportunities to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.
- Develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

The National Curriculum
KEY STAGE 1

- Become **fluent** in the fundamentals of maths through varied and frequent practice with increasingly complex problems over time
- **Reason** mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- Can **solve problems** by applying their maths to a variety of routine and non-routine problems with increasing sophistication

Key Areas of Mathematics for KS1

Year One:

- Number and Place Value
- Addition and Subtraction
- Fractions
- Properties of Shape
- Measurement

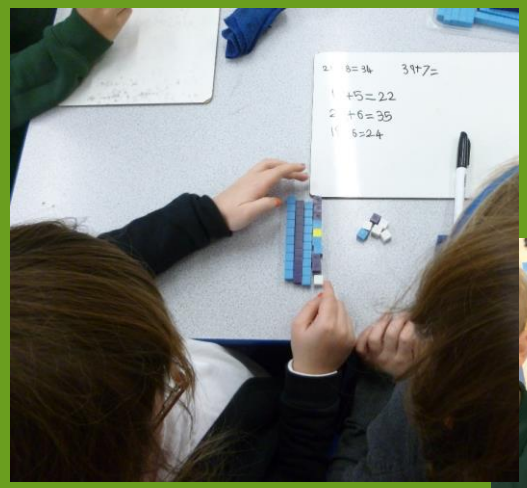
Year Two:

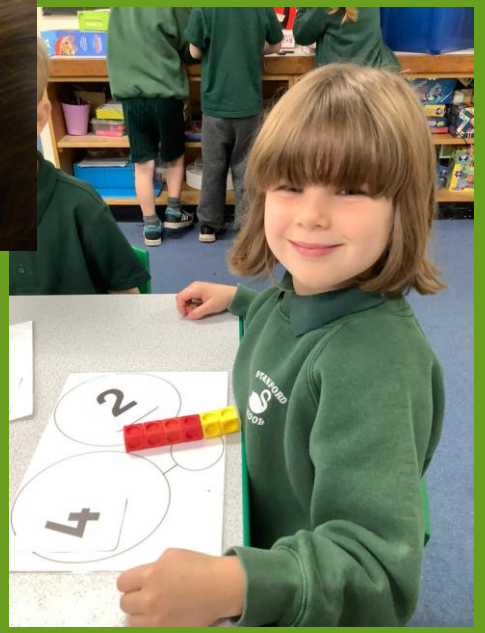
- All the above and also...
- Multiplication and Division
- Position and Direction
- Statistics

What is Maths Mastery?

Teaching for mastery is underpinned by the belief that **all children** can succeed with maths if they work hard. Teaching is interactive and procedural while fluency and conceptual understanding is developed in tandem. This approach fits with our growth mindset philosophy.

When teaching maths for mastery the whole class moves through topics at broadly the same pace. Each topic is studied in depth and the teacher works to ensure that children demonstrate that they have a secure understanding of maths concepts.

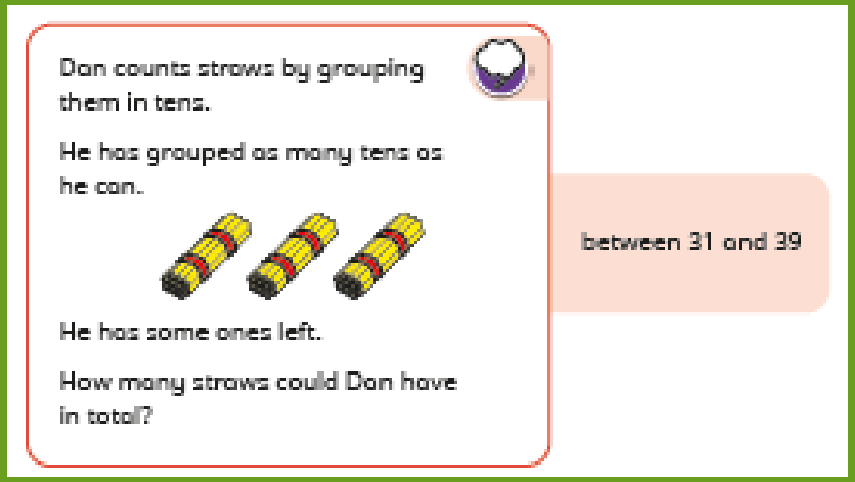




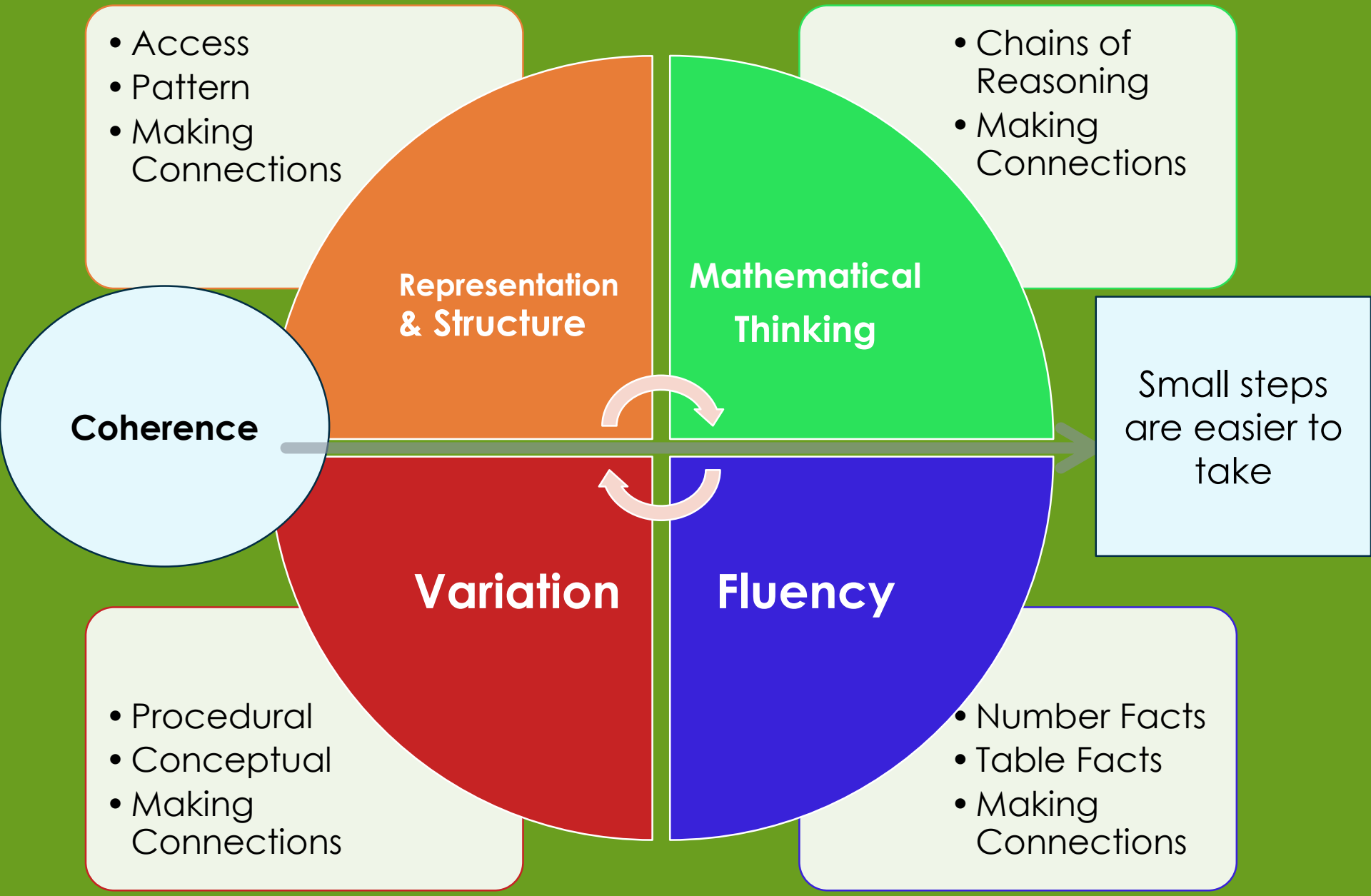
Challenge and Support

Though the whole class goes through the same content at the same pace, there is plenty of opportunity for differentiation. Those children who grasp concepts quickly are challenged with rich and sophisticated problems within the topic. Others may be provided with additional support to consolidate their understanding before moving on.

Year 1 Green Mouse Challenge:

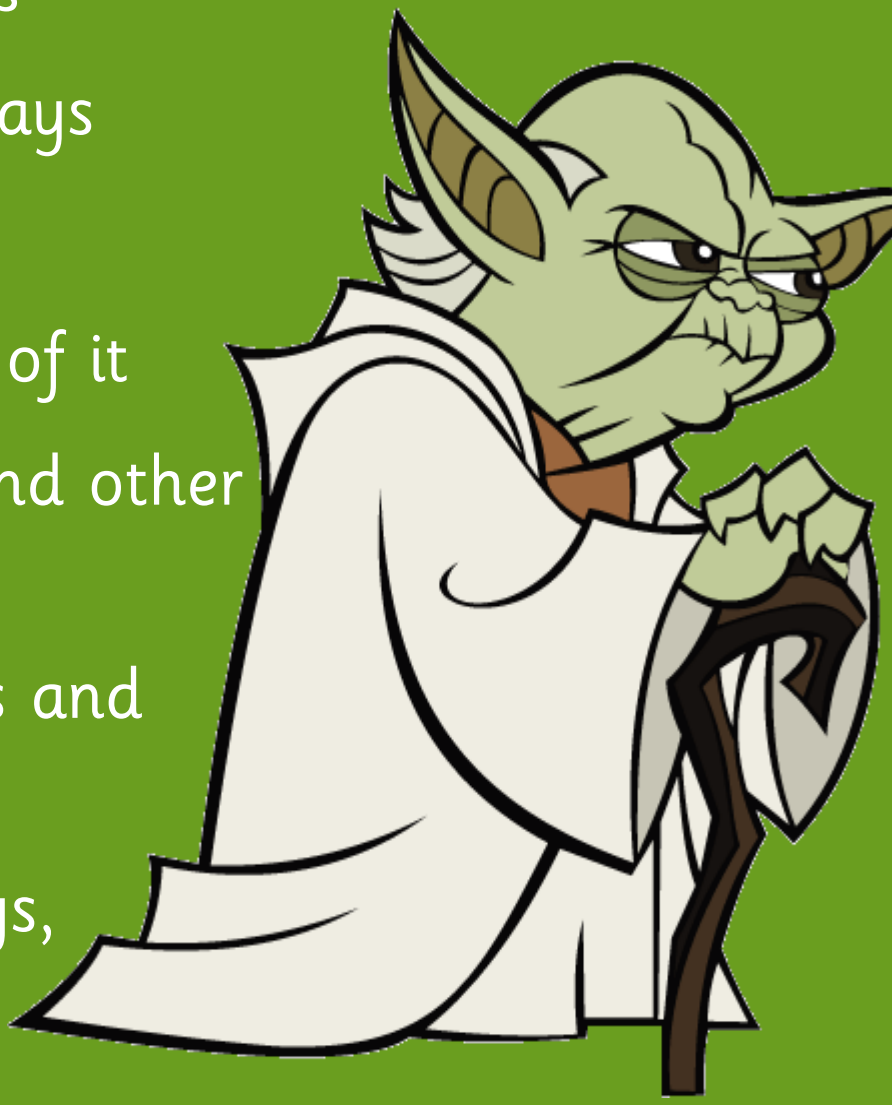


Teaching for Mastery – The Five Big Ideas



A CHILD HAS MASTERED SOMETHING IF THEY CAN:

- Describe it in their own words
- Represent it in a variety of ways
- Explain it to someone else
- Make up their own examples of it
- See connections between it and other facts or ideas
- Recognise it in new situations and contexts
- Make use of it in various ways, including in a new situations



NCETM

NATIONAL CENTRE FOR EXCELLENCE IN THE TEACHING OF MATHEMATICS

This programme aims to secure firm foundations in the development of good number sense for all children from Reception through to Year 1 and Year 2. The aim over time is that children will leave KS1 with fluency in calculation and a confidence and flexibility with number. Attention is given to key knowledge and understanding needed in Reception classes, and progression through KS1 to support success in the future.

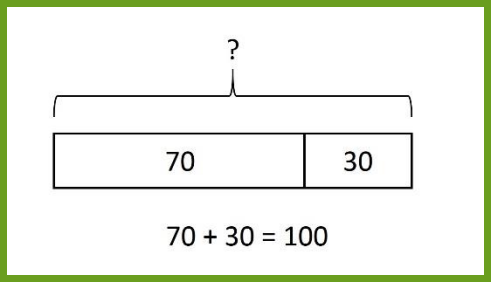
In EYFS

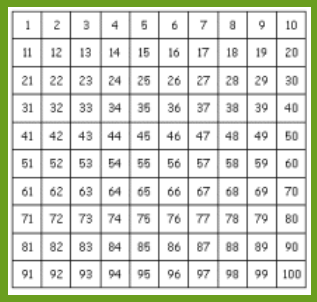
- Deeper understanding of numbers to 10 including composition
- Subitise up to 5
- Automatically recall bonds to 5
- Comparison of numbers to 10
- Explore and represent pattern. E.g. doubles
- Recognise the pattern in the number system

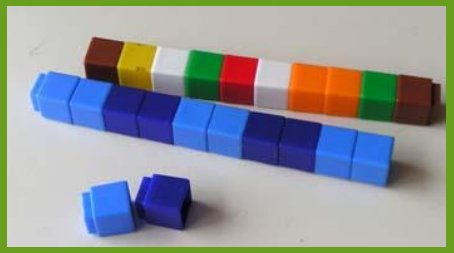
- Fluency will make the maths in the main lesson easier to learn
- Developing children's mindset to look for mathematical relationships
- Building both pupils' and teachers' confidence

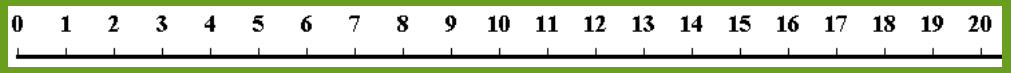
RESOURCES AND MODELS

- Numicon
- Tens frames
- Part-part whole
- Rekenrek
- Bar model
- Counters
- Dice
- Number squares
- Bead strings
- Place value cards
- Multilink/Unifix
- Online games
- Number line
- Straws









How can you help?

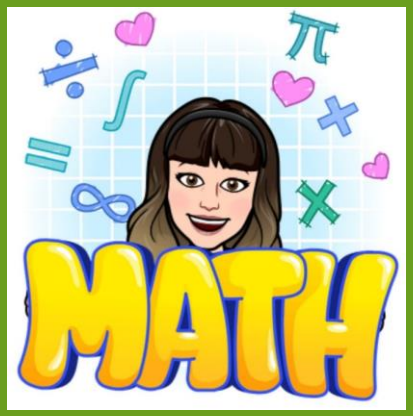
Any time that you can spend supporting your child with their maths will have a big impact

Play games with dice/cards

Be positive!

Talk about *how* you do maths

Notice! Maths is everywhere!



Give praise and encouragement

Ask your child to explain/show

Make sure maths is fun!

Helpful websites
Click for the Links

nrich

CBeebies

Topmarks

BITESIZE

OXFORDOWL

ict games

EducationQuizzes

Thank you for coming to today's session. Your support makes a huge difference.

You are now invited to attend our Year Group Workshops

Reception – Mrs Chapman

Year 1 – Miss Lawson

Year 2 – Miss Slater