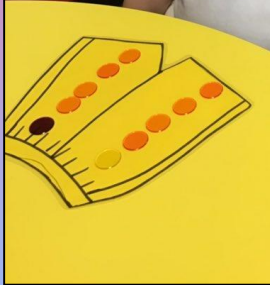
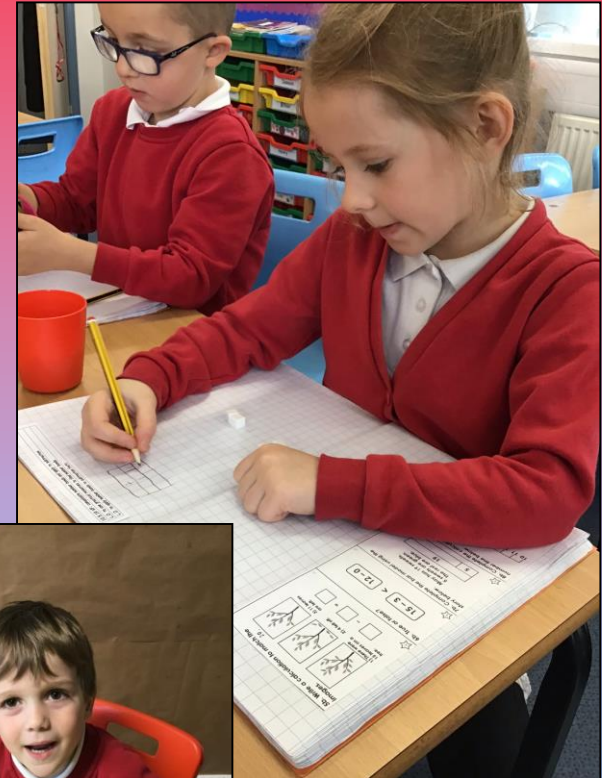


Mastery Mathematics at Bishopton Primary School



National Curriculum

The national curriculum for mathematics aims to ensure that all pupils:

- Become fluent in the fundamentals of mathematics, including 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 mathematics to a variety of routine and non-routine problems with increasing sophistication.

Reception's Curriculum

In Reception there is a Statutory framework where we provide activities and experiences for children.

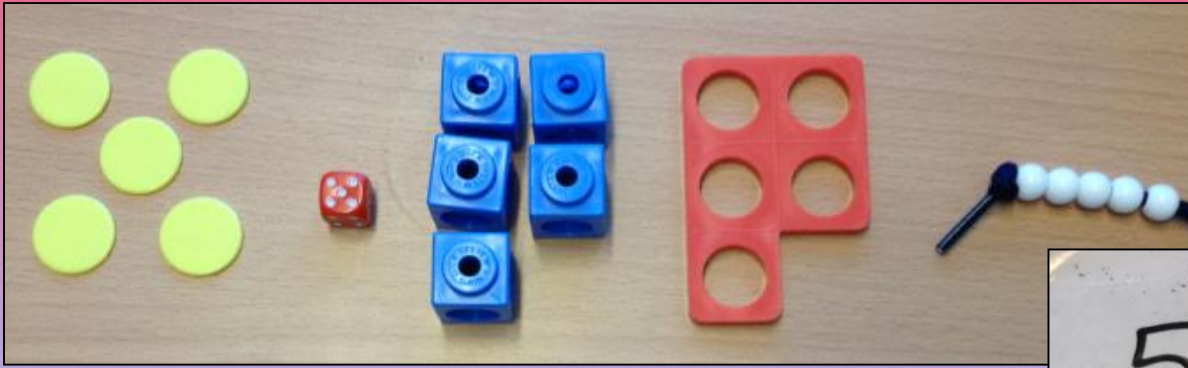
Mathematics involves providing children with opportunities to develop and improve their skills in counting, understanding and using numbers, calculating simple addition and subtraction problems; and to describe shapes, spaces and measure.

What is mastery maths?

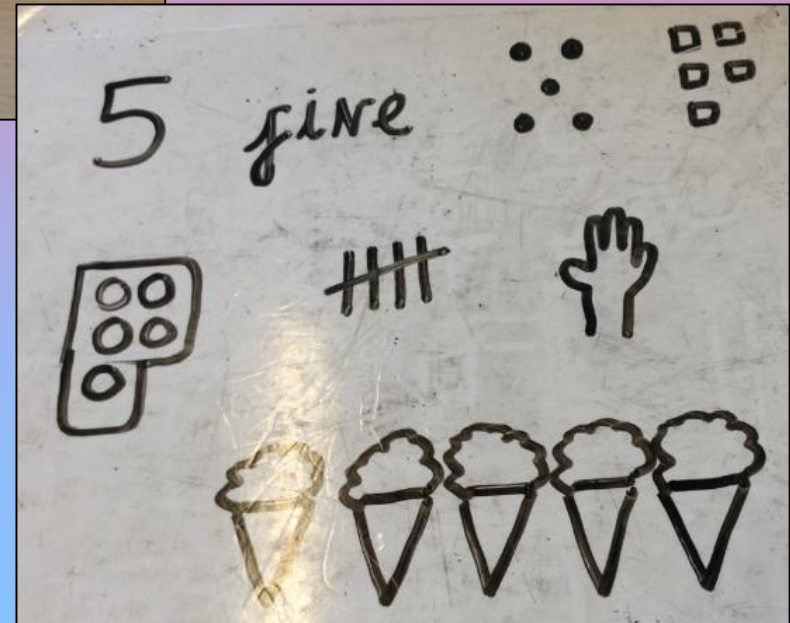
- Whole school initiative and approach to teaching mathematics.
- Deepening understanding through pictorial, practical and concrete methods. Another way, another way and another way!
- Seeing and experiencing operations - learning from a mistake or a misconception.
- Having a go and finding what works for us!
- Explaining individual understanding of a mathematical concept.
- Proving answers and reasoning.

What is mastery maths?

A mathematical concept or skill is said to have been 'mastered' when a pupil...

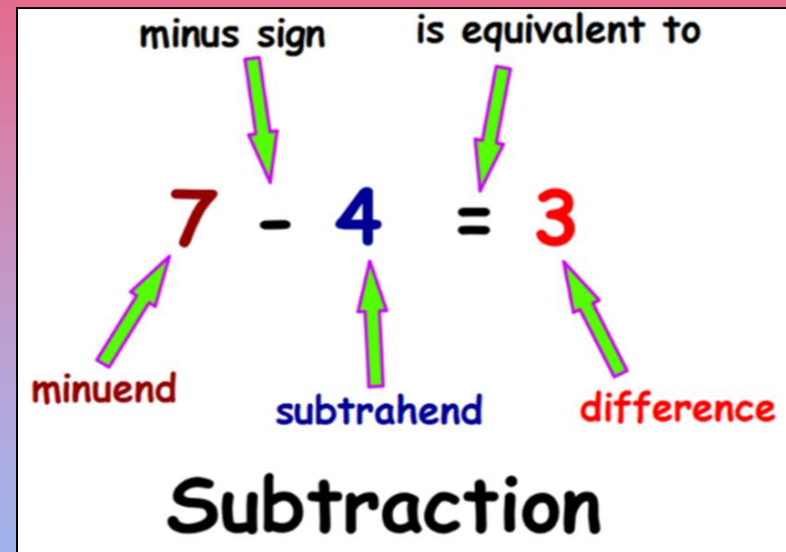
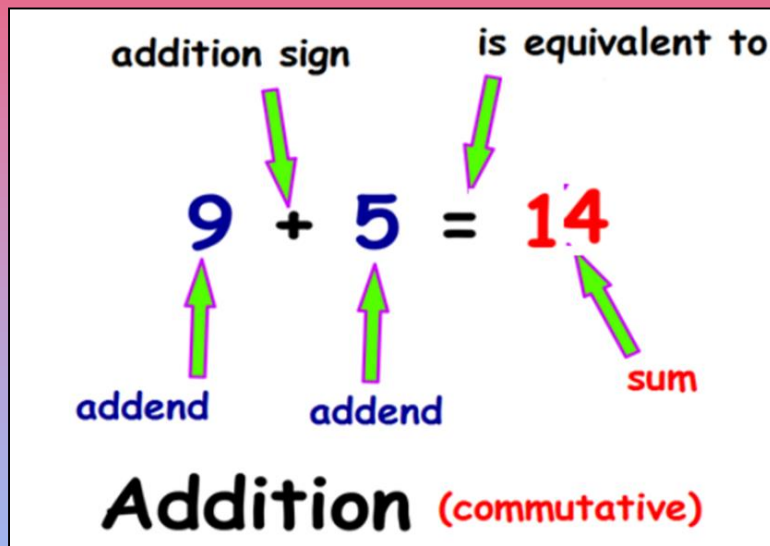


- can represent it in multiple ways.



What is mastery maths?

A mathematical concept or skill is said to have been 'mastered' when a pupil...

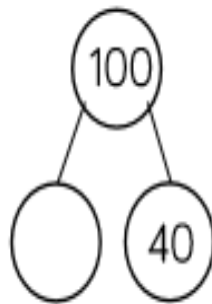
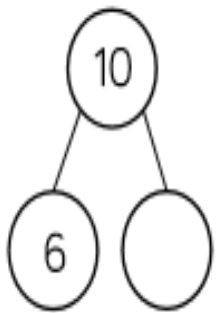


- has the mathematical language to communicate related ideas.

What is mastery maths?

A mathematical concept or skill is said to have been 'mastered' when a pupil...

Complete the part whole models below:



Find the missing numbers in the related facts.

$$5 + 4 = 9$$

$$50 + 40 = \square$$

$$8 = 3 + 5$$

$$80 = 30 + \square$$

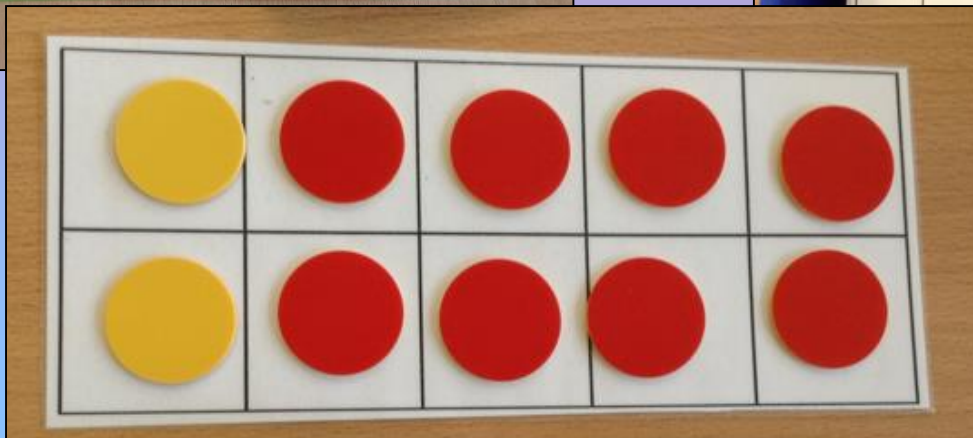
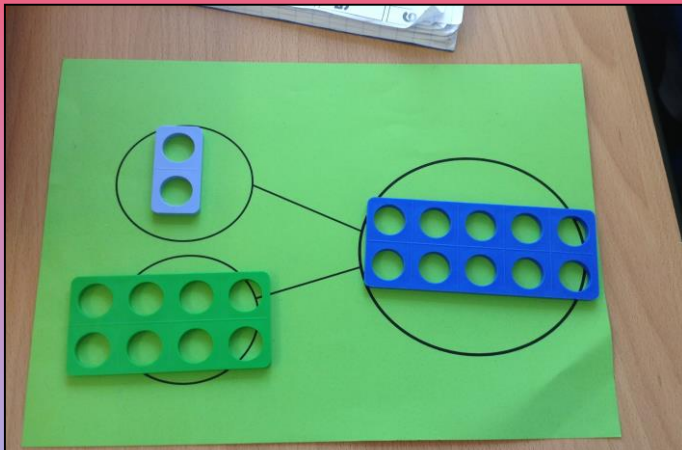
$$4 = 10 - 6$$

$$40 = \square - 60$$

- Can independently apply the concept to new problems in unfamiliar situations.

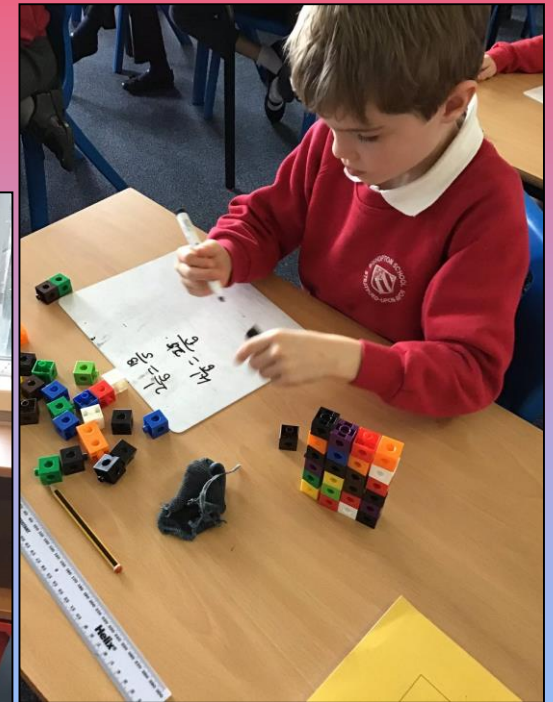
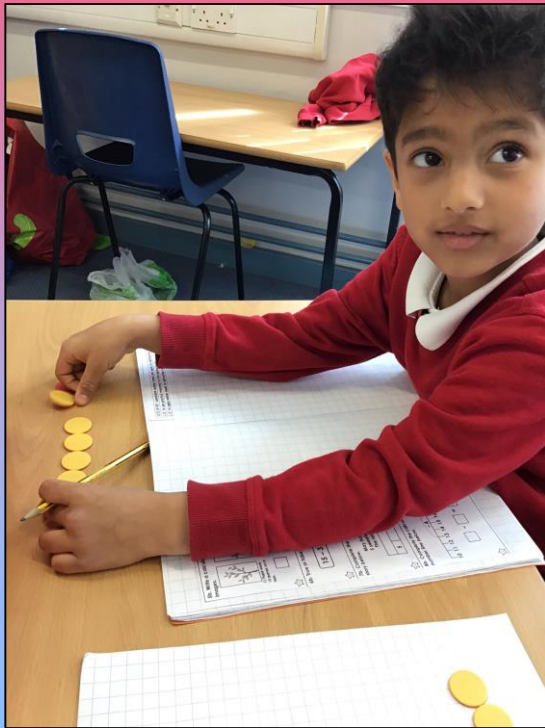
A Maths Lesson

- Anchor Task – problem solving and reasoning.



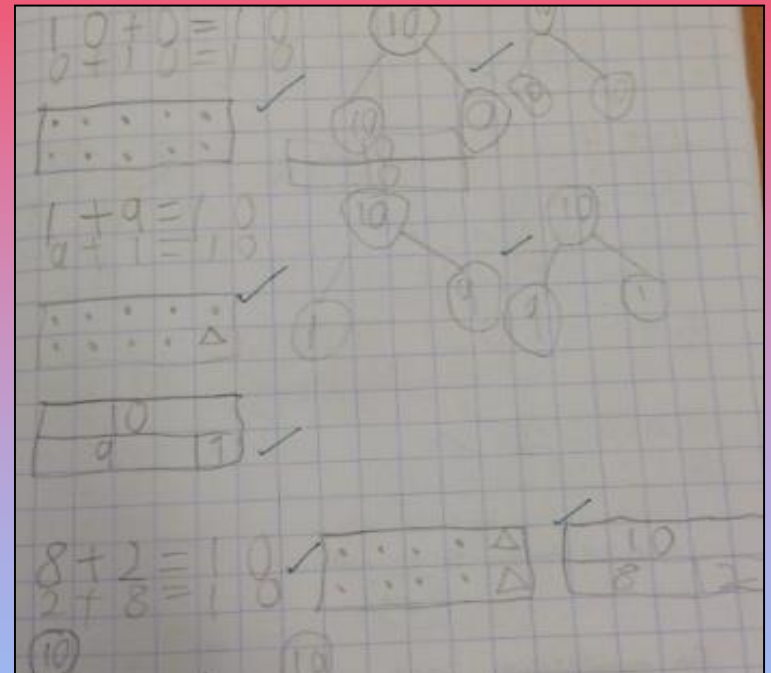
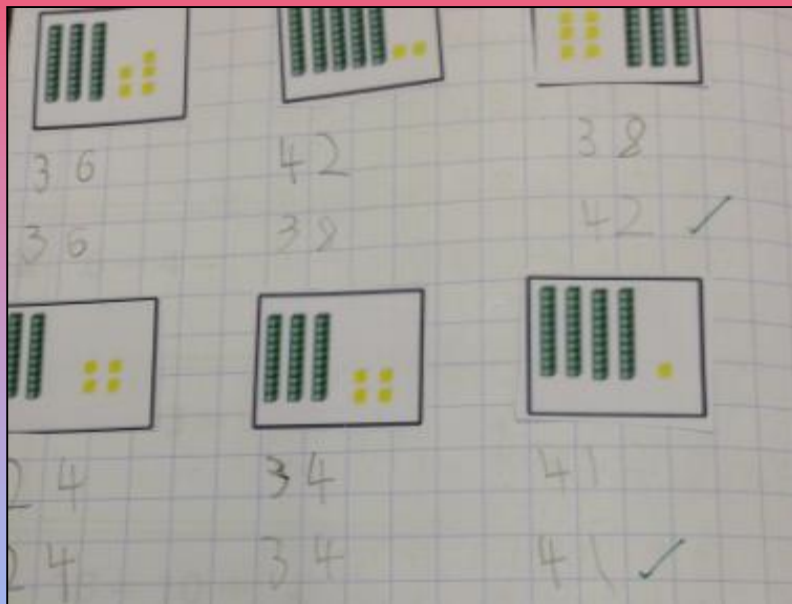
A Maths Lesson

- Episodic Teaching - interaction between teacher and children. Structure ideas and recordings.



A Maths Lesson

- Application - independent recordings in maths books.



- Catch Up Time - completed with the teacher if concept hasn't been grasped.

What impact will this have?

- Children will have a more secure understanding of mathematical concepts and will be able to demonstrate this in a variety of ways.
- Children are less likely to forget their prior learning.
- Children will become more resilient.
- Children's communication skills will improve.
- Children will be better equipped in test situations.

Hit the Button

<https://www.topmarks.co.uk/maths-games/hit-the-button>

<https://www.bbc.co.uk/iplayer/group/b08bzfnh>

Numberblocks

The animated adventures of friends who can always count on each other.

20 EPISODES AVAILABLE



CBeebies

Series 3: Once Upon a Time

A bedtime story all about the...



CBeebies

Series 3: Blockzilla

The monster tale of a colossal creature who really, really...



CBeebies

Series 3: The Numberblocks Express

Learn all the number bonds up...



CBeebies

Series 3: Fruit Salad

Find out how to split numbers into smaller numbers with the...

Hit the Button

Number
Bonds

Doubles

Halves

Times
Tables

Division
Facts

Square
Numbers