St Matthew's C of E Primary School

YEAR 1 CALCULATION POLICY



YEAR 1 MAIN PRINCIPLES

Scan QR codes to be directed to the MNP website with further information and videos.

What is maths mastery?

Teaching maths for mastery is a transformational approach to maths teaching which stems from high performing Asian nations such as Singapore. When taught to master maths, children develop their mathematical

fluency without resorting to rote learning and are able to solve non-routine maths problems without having to memorise procedures.

Concrete, pictorial, abstract (CPA)

Concrete, pictorial, abstract (CPA) is a highly effective approach to teaching that develops a deep and sustainable understanding of maths. Developed by American psychologist, Jerome Bruner, the CPA approach is essential to maths teaching in Singapore.

Number bonds

Number bonds are a way of showing how numbers can be combined or split up. They are used to reflect the 'part-part-whole' relationship of numbers.

Bar modelling

The bar model method is a strategy used by children to visualise mathematical concepts and solve problems. The method is a way to represent a situation in a word problem, usually using rectangles.

Fractions

In Singapore, the understanding of fractions is rooted in the Concrete, Pictorial, Abstract (CPA) model, where children use paper squares and strips to learn the link between the concrete and the abstract. At the heart of understanding fractions is the ability to understand that we're giving an equal part a name.

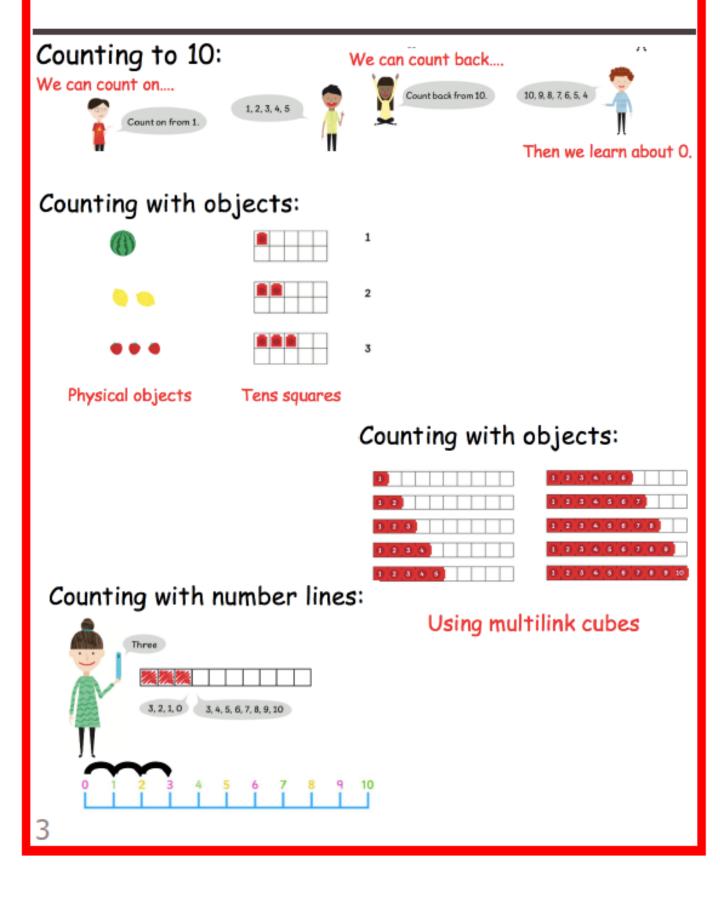


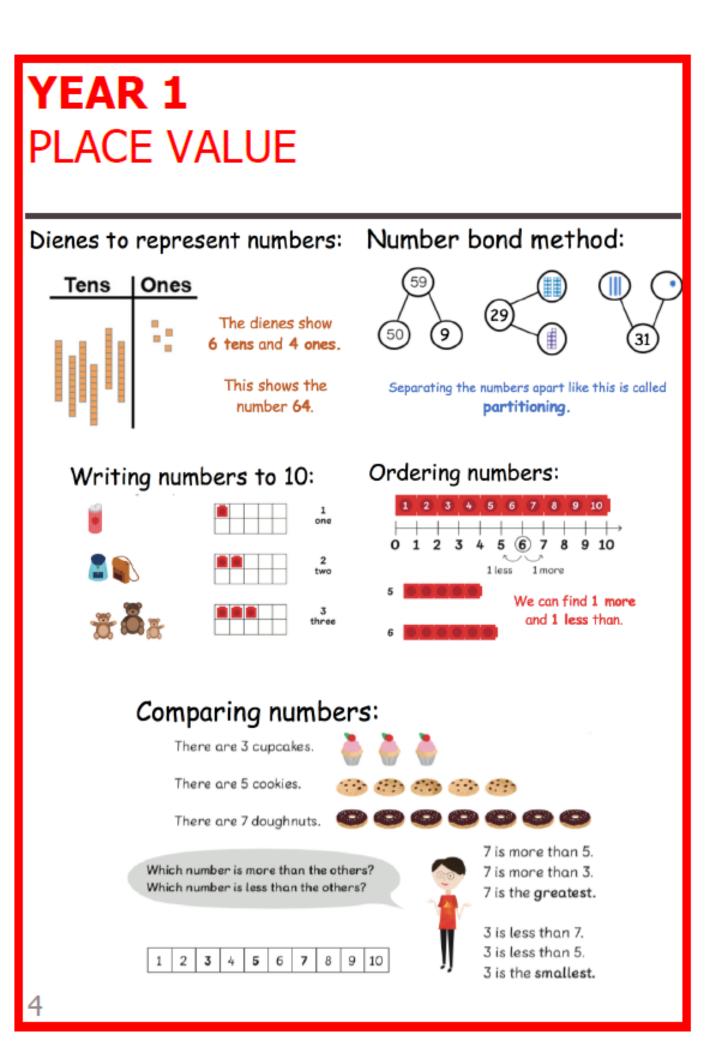




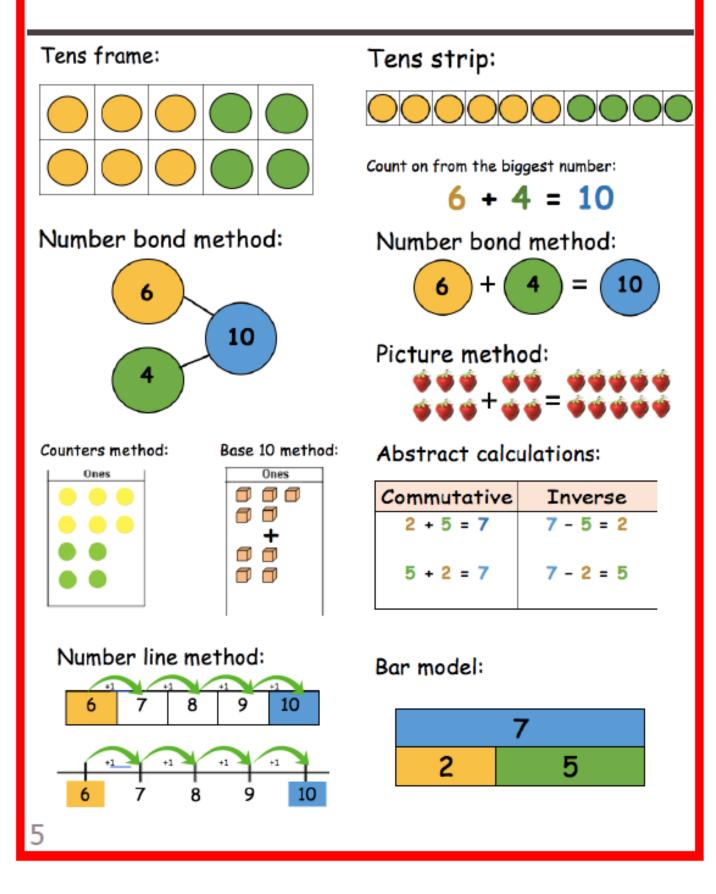


YEAR 1 PLACE VALUE - COUNTING



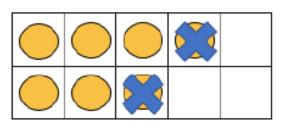


YEAR 1 ADDITION

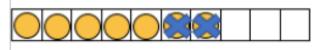


YEAR 1 SUBTRACTION

Tens frame:



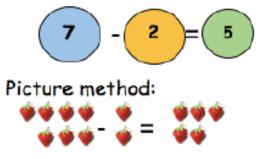
Tens strip:



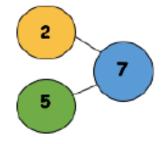
Count back from the biggest number:

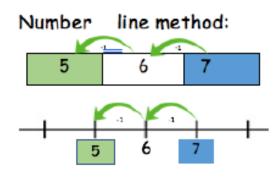


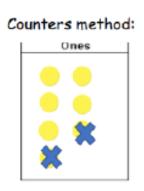
Number bond method:



Number bond method:

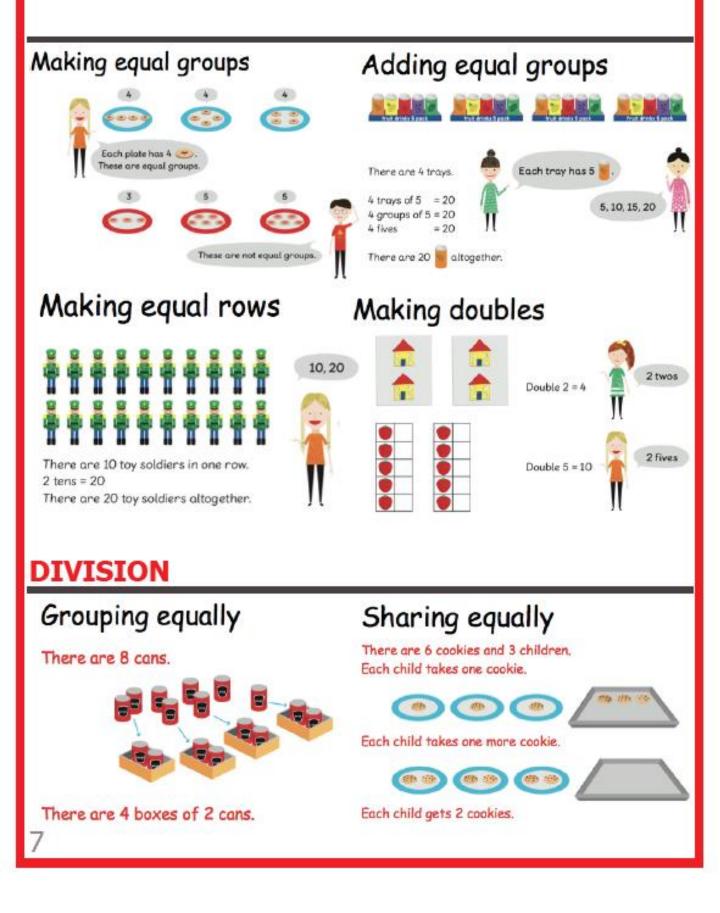






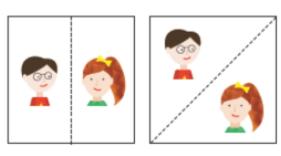
Base 10 method:

YEAR 1 MULTIPLICATION & DIVISION

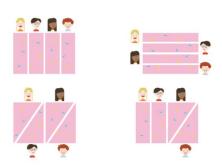


YEAR 1 FRACTIONS

Making halves



Making quarters in different ways



Sharing Equally



