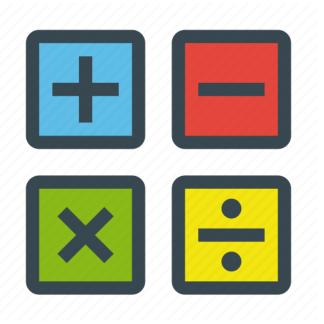


'Always our best for God, each other and ourselves'

Holy Family Catholic Primary School

Mathematics Calculation Policy



At Holy Family School, we aim for pupils to develop a mastery of maths by allowing them to develop a long, deep and secure understanding of mathematical concepts.

We do this by:

- Taking small, manageable steps each lesson to help pupils access more difficult concepts.
- Exposing pupils to a variety of representations for different areas of maths
- Helping pupils make connections, spot patterns and ask questions.
- Encouraging pupils to be clear in their reasoning about mathematics through selfexplanations and written reasoning, using key vocabulary.
- Be fluent in the fundamentals of mathematics, such as number bonds and times tables.

Because we want our pupils to develop a deep understanding of calculation, we believe that children need to understand the structure of the relationships between addition, subtraction, multiplication, and division. This means that children should be introduced to these calculations through practical manipulatives, discussing relationships and looking at representations such as part-whole models or bar models. As children begin to understand the underlying ideas, they develop ways of recording to support their thinking and calculation methods, use particular methods that apply to special cases, and learn to interpret and use the signs and symbols involved.

A secure understanding of each calculation allows pupils to develop secure mental methods. Written methods are complementary to mental methods and should not be seen as separate from them. It is important children acquire secure mental methods of calculation and one efficient written method for each calculation, which they know they can rely on when mental methods are not appropriate.

This document identifies progression in calculation strategies rather than specifying which method should be taught in a particular year group.

Children should not be made to go onto the next stage if:

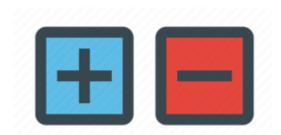
- 1) they are not ready.
- 2) they are not confident.

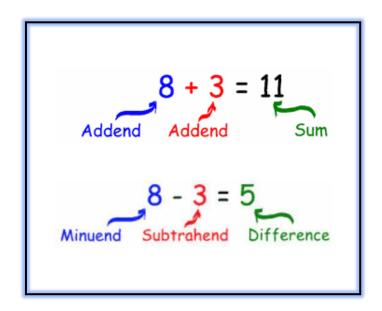
The policy is split into two relationships: additive (addition and subtraction) and multiplicative (multiplication and division). This follows the NCETM's guidance found here: https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/

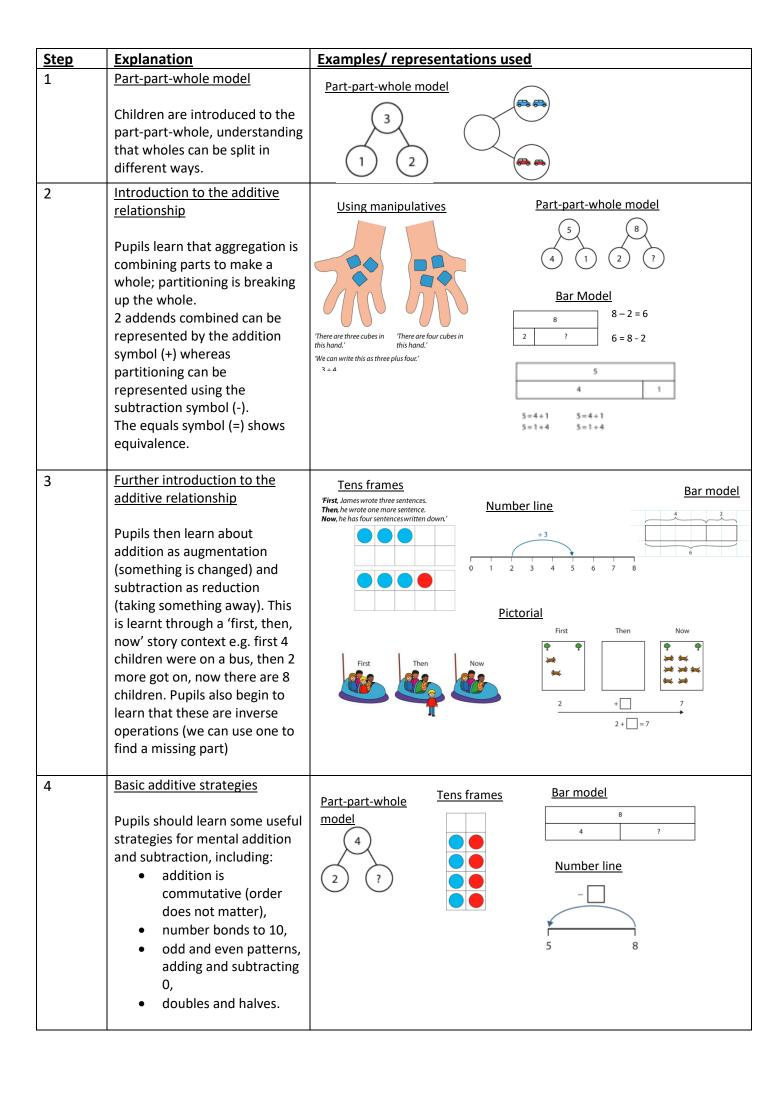


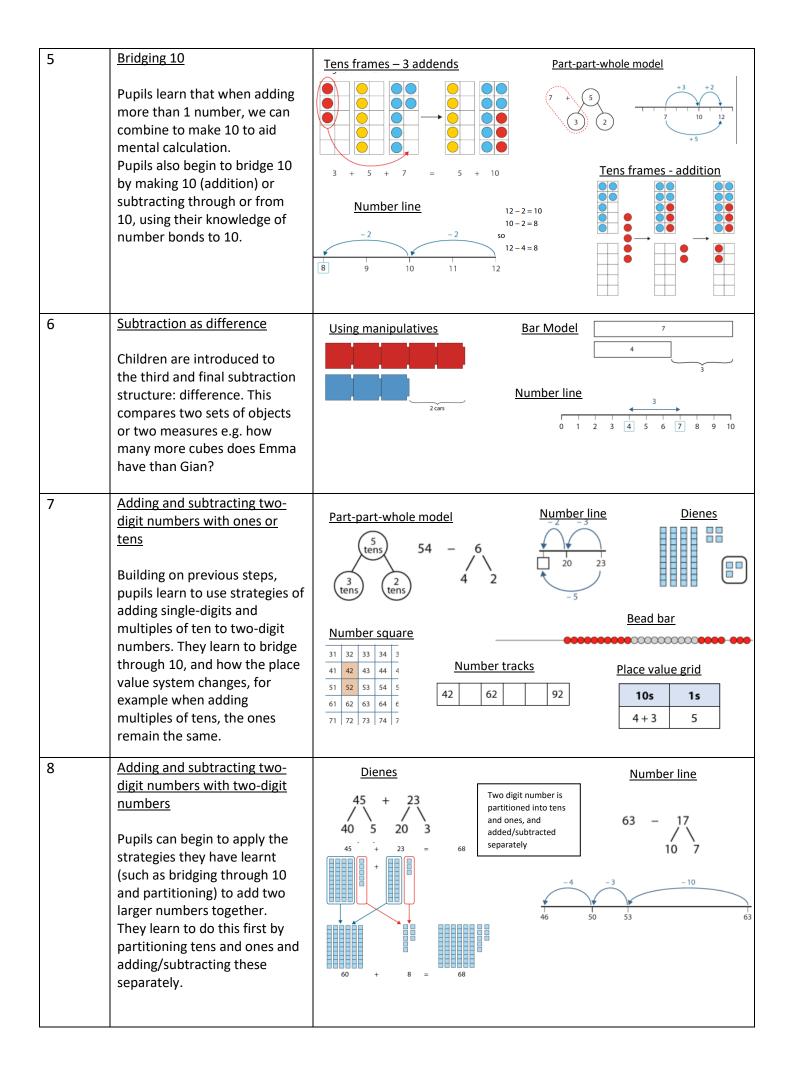
Additive Relationship

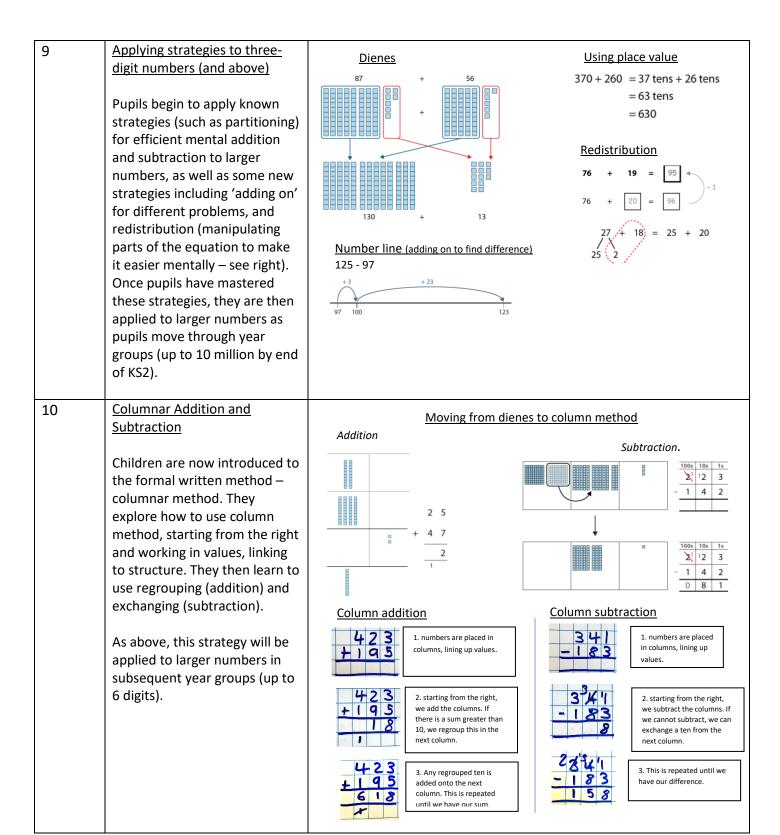
(Addition and Subtraction)

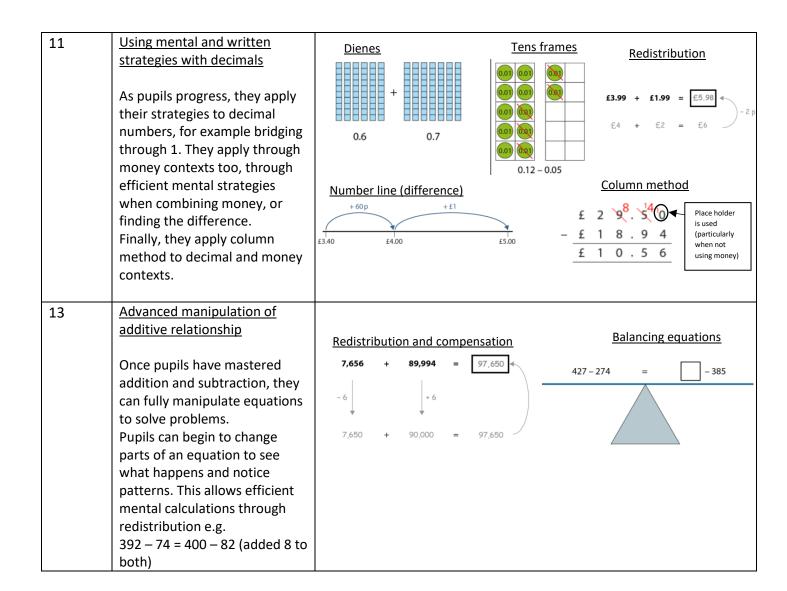














Multiplicative Relationship

(Multiplication and Division)



2 x 7 = 14

factor x factor = product

Quotient

Divisor Dividend

Calcworkshop.com

