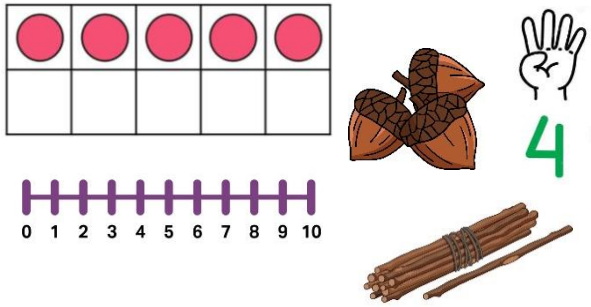
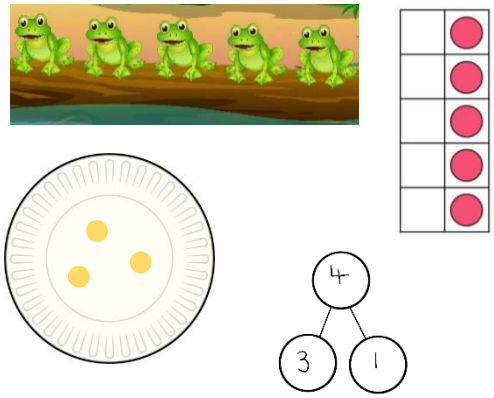
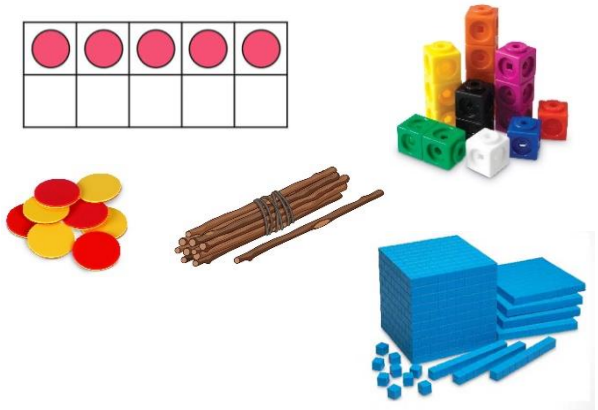
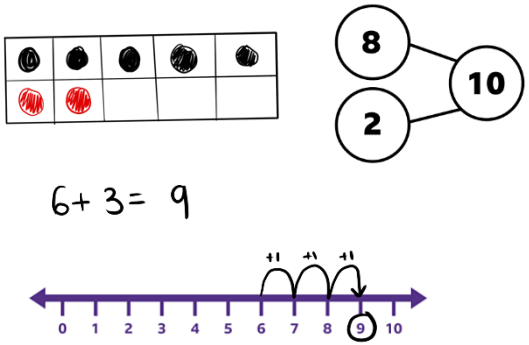
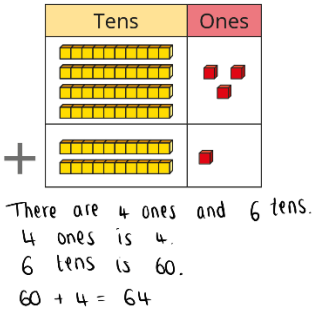
St. Paul's CE Primary School

Calculation Policy - Addition

Addition - EYFS		
Objectives Add more. One more. Subitise (to 5). Combine two groups. Number bonds to 5.	Key Vocab more fewer more less altogether subitise bigger part whole	Example Questions What do you notice? Which has more? Which has fewer? What can you see? Can you show me? Can you show me a different way to make 4?
Concrete Representation Songs, stories and nursery rhymes and children to physically add more objects. 	Pictorial Representation Use pictures, songs and mark making to add more or one more. 	Abstract Representation

St. Paul's CE Primary School

Calculation Policy - Addition

Addition KS1 (Year 1 and 2)		
Objectives Add numbers within 20(Y1). Number bonds to 10. Add within 100 (Y2). Add two 2-digit numbers. Add three 1-digit numbers. Add multiples of 10.	**Key Vocab** add total all together _ and _ makes _ _ is the whole, _ is a part, _ is a part number bonds doubles	**Example Questions** 7 + 1 = 10 = 4 + __ __ + 4 = 7 __ = 3 + 1 43 + 26 =
Concrete Representation Combining two parts to make a whole using cubes, base 10, counters and sticks. 	**Pictorial Representation** Use number lines to count on and part whole models to see the total. Children to draw on tens frames to add more.  	**Abstract Representation** Children partition the number to make addition easier. 

St. Paul's CE Primary School

Calculation Policy - Addition

Addition Lower KS2 (Year 3 + 4)

Objectives

Add 1s, 10s and 100s to a 3-digit number.
Add 2 numbers across 100.

Add 1s, 10s and 100s to a 4-digit number.
Add two 4-digit numbers together.
Add decimal numbers in the context of money.

Key Vocab

exchange
carrying
addition
altogether
column method
sum
total
make

Example Questions

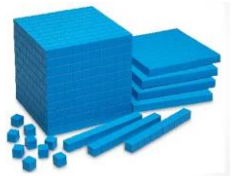
734 + 20 =

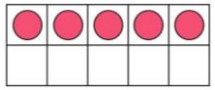
4,970 + 3821 =

_____ + 3821 = 8791

Concrete Representation

Continue using counters, tens frames and tens and ones to partition and add.

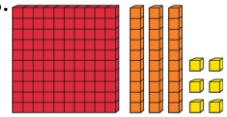


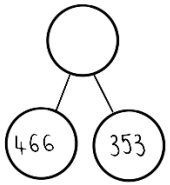


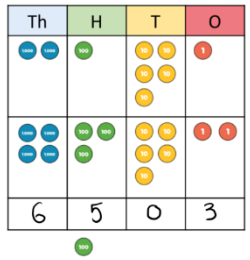
Hundreds	Tens	Ones

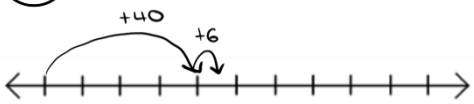
Pictorial Representation

Children to count on using a number line, partitioning tens and one. Children to use a place value grid to count counters starting with the ones.









Abstract Representation

Children to add using a column method and carryovers are placed underneath.

$$\begin{array}{r} 345 \\ +\ 432 \\ \hline 777 \end{array}$$

$$\begin{array}{r} 4673 \\ +\ 1518 \\ \hline 6191 \\ \ \ 1\ \ 1 \end{array}$$

St. Paul's CE Primary School

Calculation Policy - Addition

Addition Upper KS2 (Year 5 + 6)

Objectives

Add numbers with more than 4-digits.
Add decimals with up to 2 decimals places.
Complements to 1.

Add integers up to 10 million.
Add decimals with up to 3 decimal places.
Negative numbers.

Key Vocab

exchange
inverse
column addition
place value
columns
carry over
addition
more
total
greater than
altogether

Example Questions

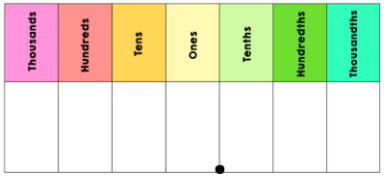
23,245 + 14,323 =

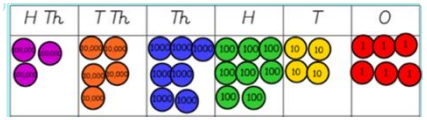
£340,972 + £6,009 + £36,000 =

40,720g + 6,872g =

Concrete Representation

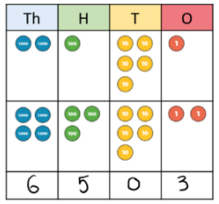
Use of place value chart with counters to partition and add numbers.

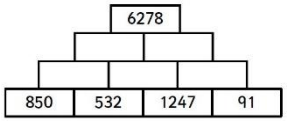


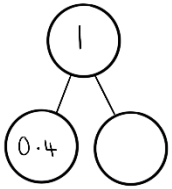


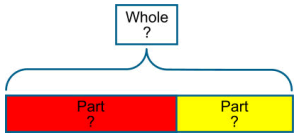
Pictorial Representation

Children to use part whole models to find the missing numbers. Children can use place value grids and counters to add if needed.









Abstract Representation

Children to add using a column method and carryovers are placed underneath.