## Studfall Infant Academy KS1 Addition Calculation Policy

## Year 1

To use practical and informal written methods to support the addition of a one-digit and two digit numbers to 20, including zero.

## Year 2

Use practical and informal methods to support the addition of two digit numbers. Developing mental fluency with addition and place value involving 2-digit numbers, then establish more formal methods.

Prior to beginning to explore addition children need to be confident in counting using 1:1 correspondence through a rich experience of counting objects in a range of contexts (e.g. role play, small world, real life context).

| Skills | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| Combining two parts to make a whole: part-whole <br> Add on, more than, bigger, most, increase, part, while, altogether | Combining two parts to make a whole using a range of concrete resources (e.g. Numicon, counters, everyday objects) | Children to represent the cubes using small circles. Bar model - as concrete image with drawn square to present the concrete objects. | Use the part-part whole diagram to move into the abstract. |
| Counting on using number lines and tracks. <br> Count on, number line, number track | Counting on using number lines, number tracks, using cubes or Numicon. Start with the largest number then count on. | Number line/bar model. <br> A bar model encourages children to count on, rather than count all. | $4+2=6$ <br> Place the largest number in your head and count on the smallest number to find your answer. |



## Two digit add tens

Addition, plus, tens, ones, place value


Adding two digit and units No exchange

Addition, plus, tens, ones, place value

## Add two 2 digit

 numbersExchanging 1s
Addition, plus, tens, ones, place value
*Year 2
expectation

Continue to develop an understanding of partitioning and place value. $23+20=43$


Make the two 2 digit number Add ones.
Add tens
Record answer. $\quad 43+24=67$

$36+25=61$
Teaching point: Ten ones are being exchanged for one ten.


Teaching point:
Ten ones are exchanged one ten

Children to represent the counters/dienes pictorially.
Ensure the tens and ones are in the correct column

$$
23+20=43
$$



Move on to formal method of solving addition calculations.

Teaching point:
Start with adding the ones.
Reinforce place value columns language. -

Partitioning using formal method. Children will need a secure understanding of place value.
 calculations.


