# 苟 <br> Tillington Manor PRIMARY SCHOOL 

## Working TOGETHER to achieve the best!

Numicon

## Calculation <br> Policy

## Patterns

## Building patterns with Numicon shapes

Aims:

- To develop ability to sequence
- To copy, continue and devise repeating patterns
- To introduce pattern-making using Numicon shapes
- To assign numerals and number names to Numicon shape patterns

5
7

5

7

5
7


## One more

Aims:

- To understand the pattern of 1 more
- To record the pattern of 1 more as addition

$1+1=2$
$2+1=3$

$3+1=4$


## One less

Aims:

- To understand the pattern of 1 less
- To record the pattern of 1 less as subtraction

$4-1=3$

$5-1=4$

$6-1=5$


## Ordering addition facts

## Aims:

- To build, order and record all combinations of addition for all numbers up to 10
- To begin to use pattern to check that all combinations for a number have been made

$1+3=4$

$2+2=4$

$3+1=4$

$4+0=4$


## Ordering subtraction facts

## Aims:

- To build, order and record all subtraction facts of all numbers to 10
- To begin to use pattern to check that all subtractions for a number have been made

$4-1=3$

$4-2=2$

$4-3=1$

$4-4=0$


## Odd and even

Aims:

- To understand odd and even numbers

2


1


3


6


5


8


7


10


9

## Addition

## Adding one-digit numbers when the answer doesn't go over 10

Aims:

- To add one-digit numbers


$$
5+2=7
$$

## Adding one-digit number to make 10

Aims:

- To make 10 with different one-digit numbers


$$
10=4+6
$$

## Adding one-digit numbers when the answer goes over 10

Aims:

- To add one-digit number when the answer is two-digit number
- To add to 10 then to add the rest



## Using known addition facts to solve new problems

Aims:

- To generalise basic addition facts in patterns of similar calculations

$4+3=7$

$14+3=17$


## Subtraction

## Subtracting one-digit numbers

Aims:

- To subtract one-digit numbers



## Subtracting two and one-digit number to make 10

Aims:

- To make 10 when subtracting two and one-digit numbers
果 围
$14-4=10$


## Subtracting two and one-digit numbers when the answer goes over

 10
## Aims:

- To subtract two and one-digit numbers when the answer is one-digit number
- To subtract to 10 then to subtract the rest
聞日

7
$=15-7=15-(5-2)=8$



## Using known subtraction facts to solve new problems

Aims:

- To generalise basic addition facts in patterns of similar calculations


4-2 = 2

$14-2=12$

## Place Value

## Partitioning numbers from 1 to 20

Aims:

- To understand the structure of numbers from1 to 20 and place value
- To learn to partition two digit numbers into tens and units

| Number | Tens | Ones |
| :---: | :---: | :---: |
| 12 |  |  |
|  |  |  |

## Tens and units - zero as a place holder

Aims:

- To learn the components of tens and units

| Number | Tens | Ones |
| :---: | :---: | :---: |
|  |  |  |
| 20 |  |  |

