

# HOLGATE PRIMARY & NURSERY SCHOOL



**Primary and Nursery School**

A guide for parents on written  
calculations in mathematics

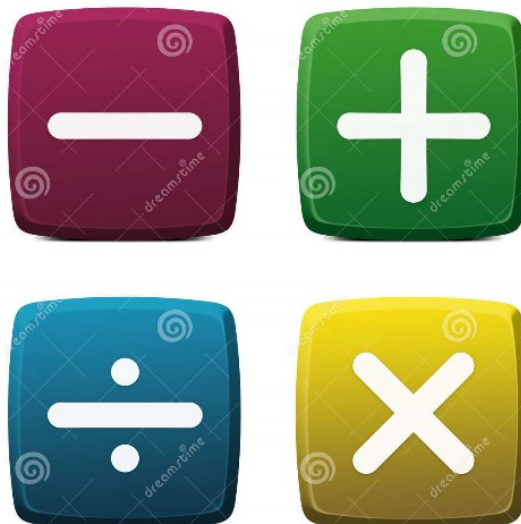
Year 1

This booklet is designed to support parents understand the strategies/methods used in school when teaching children a formal written method to solve a problem. It shows the progression in calculation strategies for each of the four operations: addition, subtraction, multiplication and division. For each operation there are stages that children need to work through and build upon their basic skills.

These are the calculations that you child will do in year 1. These stages are progressive and will be built upon throughout the academic year. Children will work through these stages at different paces to ensure that they are confident and can apply them independently.

For children to develop a good sense of number, it is important to lay firm foundations in mathematics and to build on these in a systematic way.

At Sutton Road Primary we have taken into account the way children develop in their learning and understanding, beginning with a firm grounding in mental calculations, and using these skills to develop effective written methods for calculations.



# Addition

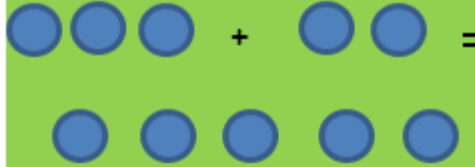
## Stage 1

Counting using fingers and objects.



## Stage 2

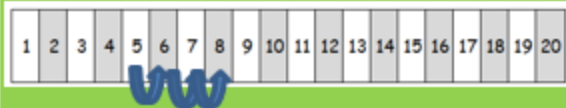
Counters or pictures used to show amounts.



## Stage 3

Counting on a number track (single numbers).

$$5 + 3 =$$



## Stage 4

Using a number line (single jumps)

$$7 + 5 =$$



## Stage 5

Counting on using a hundred square (tens).  $24 + 10$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

## Year 1

add  
more  
plus  
and  
make  
altogether  
total  
equal

to  
equals  
double  
most  
count on  
number line  
number  
bonds

# Subtraction

## Stage 1

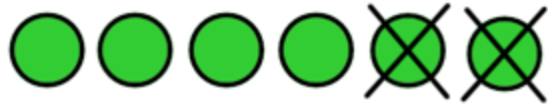
Using fingers to show taking away.



## Stage 2

Using objects/counters to show taking away.

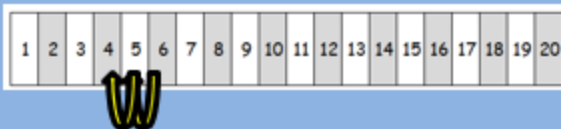
$$6 - 2 = 4$$



## Stage 3

Using a number track to count back.

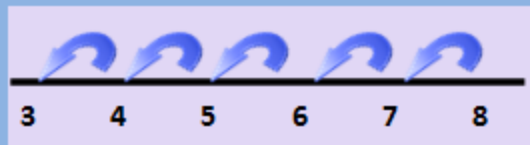
$$6 - 2 = 4$$



## Stage 4

Using a number line to count back.

$$8 - 5 = 3$$



## Year 1

equal to  
take away  
less  
minus  
subtract  
distance  
between  
difference  
number line

how many  
more  
how many  
fewer  
less than  
most  
least  
count back  
how many  
left  
how much  
less is

# Multiplication

## Stage 1

Songs and counting in 2s, 5s and 10s.

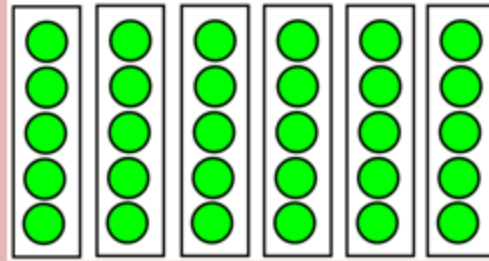


## Stage 2

Repeated addition using concrete objects

$$6 \times 5 = 30$$

$$5 + 5 + 5 + 5 + 5 + 5 = 30$$



## Year 1

groups of  
lots of  
times

multiply  
count  
array  
altogether

# Division

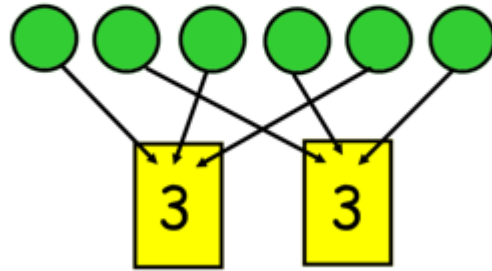
## Stage 1

Halving shapes, numbers and quantity of objects.

## Stage 2

Sharing numbers using counters/objects ( $\div$ )

$$6 \div 2 = 3$$



## Stage 3

Grouping numbers using counters ( $\div$ )

$$6 \div 2 = 3$$



## Year 1

share  
share equally  
one each  
two each...

group  
groups of  
lots of  
array

