

## St Mary's Catholic

 Primary School,a Voluntary Academy


Calculation Policy Simplified


| ? | 3 |
| :--- | :--- |



Addition starts by adding objects


## Addition

For larger numbers we regroup horizontally (Partitioning) Y2 and beyond


$+$| 200 | + | 60 | + | 3 |
| :---: | :---: | :---: | :---: | :---: |
| 100 | + | 10 | + | 9 |
| 300 | + | 70 | + | 12 |
| 300 | + | 80 | + | 2 |



Number line (Manipulatives and then onto jottings)


Column addition with exchange box Y3 and beyond.

Exchange box/row for exchanges/ regrouping


Empty number line (jottings)


Subtraction starts with taking away objects


Bead string lines that bridge 100



Number line (Manipulatives and then onto jottings)


Empty number line (jottings)


For larger numbers regroup horizontally (Partitioning)


Then vertically until we eventually progress to exchanging (Column method for exchanging) Y3 and beyond


First, we group objects as a representation


Bead string


Arrays


Number line and onto an empty number line to show as repeated addition (manipulatives and jottings)

(Expanded version)

Division begins with sharing

## Division

Chunking


Division using bar models


Bead string


Sharing using arrays


Number line and onto an empty number line to show as repeated addition and subtraction (manipulatives and jottings)

Example without remainder
$40 \div 5$
Ask "How many 5 s in 40?"

$8 \div 4=2$


Partitioning to aid division Y3 and beyond

Short division Y4 and beyond
Begin with divisions that divide equally with no remainder.

Move onto divisions with a remainder.


