## St Nicholas C.E Primary School



Calculation Progression Policy
Division

ST NICHOLAS C.E. PRIMARY SCHOOL
DIVISION $\rightarrow$ YEAR ONE

| Objective | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| Sharing | Using a range of objects <br> $6 \div 2$ | Children to represent the practical resources | Use a bar model <br> $6+2=3$ $\square$ <br> Children should also be encouraged to use their 2 times tables facts. |
| Grouping | Using a beadstring | Represent this pictorially alongside a number line | Use a bar model |
| Halving even numbers | Using cubes | Representing pictorially | Using a bar model |
| Vocabulary |  | Stem Sentences |  |

The whole is $\qquad$ -

The whole is shared into $\qquad$ equal parts. Each part is worth $\qquad$ _.

ST NICHOLAS C.E. PRIMARY SCHOOL
DIVISION $\rightarrow$ YEAR TWO
Objective

Sharing halving divide grouping half arrays repeated subtraction

The whole is $\qquad$ .

The whole is shared into $\qquad$ equal parts.

| Objective | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| TO $\div$ ) with remainders | Using resources <br> $13+4$ <br> Use of lollipop sticks to form wholes- squares are made because we are dividing by 4. $\square$ $\square$ $\square$ <br> There are 3 whole squares, with 1 left over. | Represent this pictorially alongside a number line <br> Represent the lollipop sticks pictorially | 13 $-4-3$ remainder 1 <br> Children should be encouraged to use their times table facts; they could also represent repeated addition on a number line. <br> '3 groups of 4 , with 1 left over' Times tables Facts <br> Repeated Subtraction |
| Sharing | Using counters <br> $42+3^{-}=14^{-}$ | Represented pictorially | Calculations to show steps $\begin{aligned} & 42 \div 3 \\ & 42=30+12 \\ & 30 \div 3=10 \\ & 12+3=4 \\ & 10+4=14 \end{aligned}$ |
| Vocabulary |  | Stem Sentences |  |
| repeated addition grouping equal groups of double multiply times lots of array partitioning grid method product remainders |  | The whole is___ The whole is shared into ___ equal parts. |  |

There are $\qquad$ equal parts of $\qquad$ and $\qquad$ remainders

| Objective | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| Short division | With place value C165 5 5 <br> Make 615 with place value counters. 2. How many groups of 5 hundreds can you make with 6 <br> Exchange 1 hundred for 10 tens. <br> . How many groups of 5 tens can make with 11 ten <br> 5. Exchange 1 ten for 10 ones. 6. How many groups of 5 ones can you make with 15 ones? | Represent the counters pictorially | Short division scaffold to calculate ${ }_{5}^{\frac{123}{615}}$ |
| Vocabulary |  | Stem Sentences |  |
| repeated addition grouping equal groups of double multiply times lots of array partitioning grid method product remainders short division bus shelter |  | The whole is___ The whole is shared into ___ equal parts. |  |

There are $\qquad$ equal parts of $\qquad$ and $\qquad$ remainders

ST NICHOLAS C.E. PRIMARY SCHOOL
DIVISION YEAR FIVE

| Objective | Concrete | Pictorial | Abstract |
| :---: | :---: | :---: | :---: |
| Short division <br> $\mathrm{ThHTO} \div \mathrm{O}$ |  |  | Formal method |
|  |  |  | $\frac{1824}{3 \longdiv { 5 ^ { 2 } 4 } 7 ^ { 1 } 2}$ |
| Vocabulary |  |  | Sentences |
| repeated addition grouping equal groups of double multiply times lots of array partitioning grid method product remainders short division bus shelter quotient |  | The whol <br> There are $\qquad$ eq <br> The quotient of | hole is $\qquad$ <br> red into $\qquad$ equal parts. <br> ts of $\qquad$ and $\qquad$ remainders $\qquad$ is $\qquad$ (the quotient of 24 nd 6 is 4) |



| Vocabulary | Stem Sentences |
| :---: | :--- | :--- |
| repeated addition grouping equal | The whole is___. | groups of double multiply times lots of array partitioning grid method product remainders short division bus shelter quotient long division

There are $\qquad$ equal parts of $\qquad$ and $\qquad$ remainders

