# St Nicholas C.E Primary School



## **Calculation Progression Policy**

## Division

#### ST NICHOLAS C.E. PRIMARY SCHOOL DIVISION→ YEAR ONE

Objective	Concrete	Pictorial	Abstract
Sharing	Using a range of objects	Children to represent the practical resources	Use a bar model 6+2=3 3 3 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
			3 3
Vocabulary		Stem Sentences	
Sharing halving divide grouping half		The whole is The whole is shared into equal parts. Each part is worth	

#### ST NICHOLAS C.E. PRIMARY SCHOOL DIVISION→ YEAR TWO

Objective	Concrete	Pictorial	Abstract	
Sharing	Using a range of objects	<ul> <li>children to represent the practical resources</li> <li>children to represent the practical resources</li> </ul>		
Grouping	Using a beadstring	ing a beadstring     Represent this pictorially alongside a number line		
Halving even numbers	Using cubes	Representing pictorially	Using a bar model	
			3 3	
Arrays	Using cubes/counters	Represent pictorially	Using a bar model	
Repeated subtraction	Ibtraction Use concrete resources Represent		Abstract number line to represent the equal groups that have been subtracted	
	<b>499=90</b> =90=	1000000	-Z -2 -2 0 1 2 3 4 5 6 3 groups	
Vocabulary		Stem Se	entences	
Sharing halving divide grouping half arrays repeated subtraction		The whole is The whole is shared into equal parts.		
		Each part is	worth	

#### ST NICOLAS C.E. PRIMARY SCHOOL DIVISION→ YEAR THREE

Objective	Concrete	Pictorial	Abstract
TO ÷ ) with remainders	Using resources 13 + 4 Use of lollipop sticks to form wholes- squares are made because we are dividing by 4. There are 3 whole squares, with 1 left over.	Represent this pictorially alongside a number line	13 + 4 - 3 remainder 1 Children should be encouraged to use their times table facts; they could also represent repeated addition on a number line. '3 groups of 4, with 1 left over' Times tables Facts Children the state of the stateo
Sharing	Using counters 42 + 3 = 14 42 + 3 = 14 10s	Represented pictorially	Calculations to show steps 42 + 3 42 = 30 + 12 30 + 3 = 10 12 + 3 = 4 10 + 4 = 14
Vocabulary		Stem Sentences	
repeated addition grouping equal groups of double multiply times lots of array partitioning grid method product <b>remainders</b>		The whole is The whole is shared into equal parts. <b>There are equal parts of and remainders</b>	

## ST NICHOLAS C.E. PRIMARY SCHOOL DIVISION→ YEAR FOUR

Objective	Concrete	Pictorial	Abstract
Short division	With place value C( 615+5	Represent the counters pictorially	Short division scaffold to calculate 123 5 6 <sup>1</sup> 1 <sup>1</sup> 5
Vocabulary		Stem Sentences	
repeated addition grouping equal groups of double multiply times lots of array partitioning grid method product remainders <b>short division bus shelter</b>		The whole is The whole is shared into equal parts.	
		There are equal parts o	of and remainders

### ST NICHOLAS C.E. PRIMARY SCHOOL DIVISION YEAR FIVE

Objective	Concrete	Pictorial	Abstract
Short division			Formal method
ThHTO ÷ O			1824 315 <sup>2</sup> 472
Vocabulary		Stem Sentences	
repeated addition grouping	equal groups of double	The v	vhole is
product remainders short division bus shelter <b>quotient</b>		The whole is shared into equal parts.	
		There are equal pa	rts of and remainders
		The quotient of and a	d is (the quotient of 24 nd 6 is 4)

### ST NICHOLAS C.E. PRIMARY SCHOOL DIVISION YEAR SIX

Objective	Concre	ete	Pictorial	Abstract
Short division Interpret remainders as whole numbers, fractions or decimals				Formal method Whole Number Remainder 0648 r 3 532443 Fraction Remainder 0648 3 5332443 Decimal Remainder 0648 6 53324 3 0648 3 53324 3 0648 3 53324 3 0648 3 53324 3 0648 3 53324 3 0 0648 3 53324 3 0 0 0 0 0 0 0 0 0 0 0 0 0
Long division Interpret remainders as whole numbers, fractions or decimals	2544 + 12 1000s 100s 10s 1000s 100s 10s 1000s 100s 10s 1000s 100s 10s 1000s 10s 1000s 10s 1000s 10s 1000s 10s 1000s 10s 1000s 10s 10s 10s 10s 10s 10s 10s 10s	Image: Strain		Formal written methods Whole Number Remainder 152178 152178 152178 -154 -154 -753 -753 -154
Vocabulary		Stem Se	entences	1
repeated addition grouping oqual		The whole is		
groups of double mul lots o partitioning grid metho	ltiply times f array d product		The whole is sha	red into equal parts.
remainders short division quotient <b>long divi</b>	bus shelter i <b>sion</b>	The error	nere are equal par	ts of and remainders
		🗆 i ne auo	tient of and i	s (the quotient of 24 and 6 is 4)