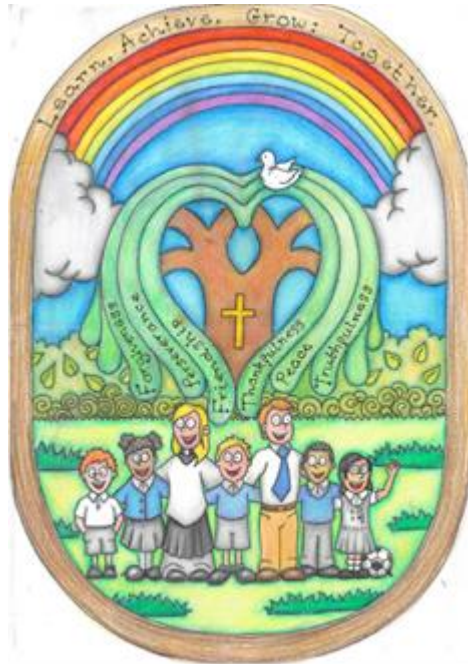


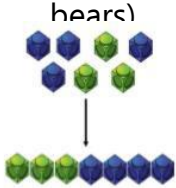
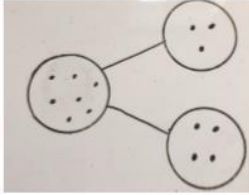
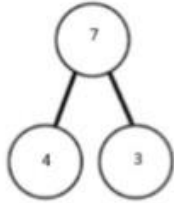

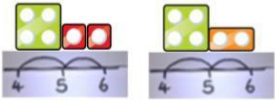
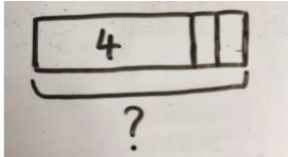

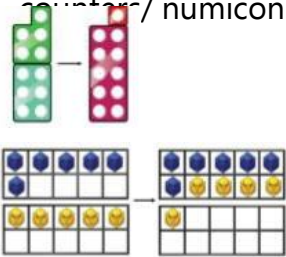
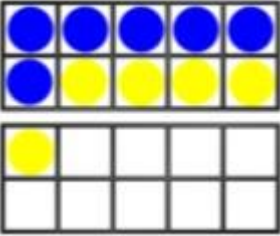
St Nicholas C.E Primary School



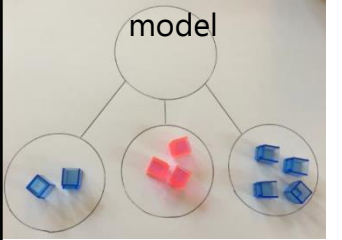
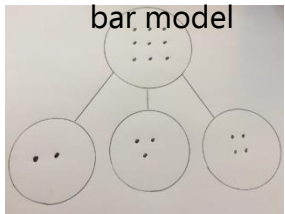
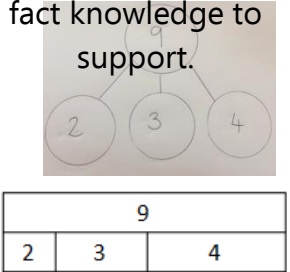
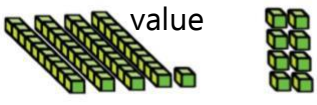
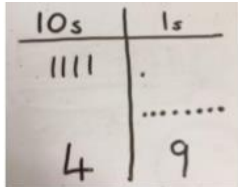
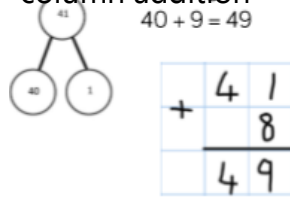
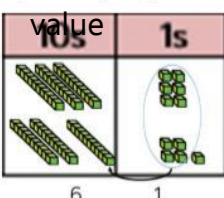
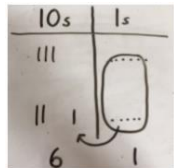
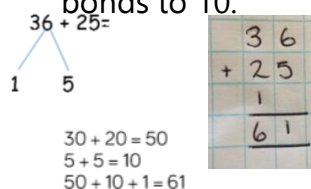
Calculation Progression Policy

Addition

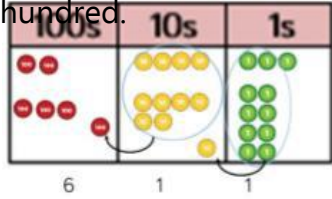
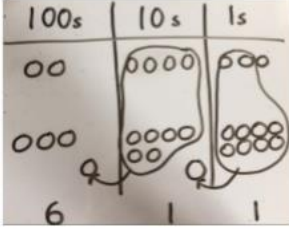
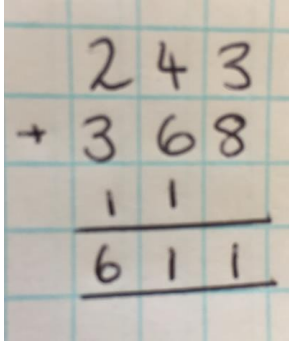
ST NICHOLAS C.E. PRIMARY SCHOOL
ADDITION- YEAR ONE

Objective	Concrete	Pictorial	Abstract
Combining two parts to make a whole	<p>Use a range of manipulatives (e.g. cubes, shells, teddy bears)</p> 	<p>Represent cubes using dots on a representation (e.g. part whole/bar model)</p> 	<p>$4 + 3 = 7$. Four is a part, three is a part and</p> 
Counting on using number lines	<p>Use manipulatives alongside a numberline</p>  	<p>Use a bar model. This encourages count on rather than counting all</p> 	<p>The abstract number line.</p> <p>What is 2 more than? What is the sum of?</p> 
Regrouping to make ten	<p>Use ten frames and counters/ numicon</p> 	<p>Use ten frames template and draw</p> 	<p>Develop understanding of equality.</p> $6 + \square = 11$ $6 + 5 = 5 + \square$ $6 + 5 = \square + 4$
Vocabulary		Stem Sentences	
<p>part whole total sum add counting tens ones equal equal to same value plus more than less than</p>		<p>The whole is ____ so ____ is a part and ____ is a part (The whole is 10 so 6 is a part and 4 is a part) ____ is a part and ____ is a part so ____ is a whole (7 is a part and 3 is a part so 10 is the whole) The total of ____ and ____ is ____. (The total of 6 and 4 is 10)</p>	

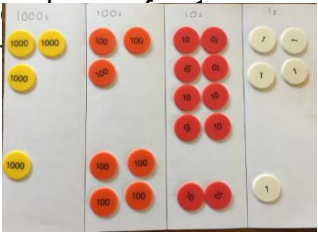
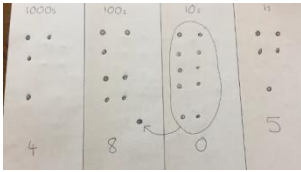
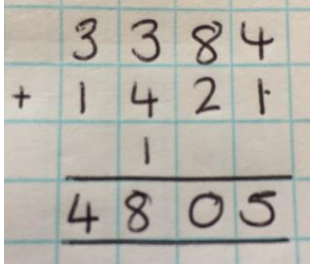
STNICHOLAS C.E. PRIMARY SCHOOL
ADDITION- YEAR TWO

Objective	Concrete	Pictorial	Abstract
<p>Adding 3 single digit numbers</p>	<p>Use concrete resources of a 3 part whole model and a bar model</p> 	<p>Represent the dots on both a part whole and bar model</p> 	<p>$2 + 3 + 4 = ?$ Use known number fact knowledge to support.</p> 
<p>A two digit number plus ones</p>	<p>Use manipulatives to develop understanding of partitioning and place value</p> 	<p>Represent resources using lines for tens and circles for ones</p> 	<p>Answer a question by using partitioning or column addition</p> <p>$40 + 9 = 49$</p> 
<p>Two digit number plus a two digit number</p>	<p>Use manipulatives to develop understanding of partitioning and place value</p> <p>$36 + 25 =$</p> 	<p>Represent resources in a place value chart</p> 	<p>Answer a question by using their knowledge of partitioning and bonds to 10.</p> <p>$36 + 25 =$</p>  <p>$30 + 20 = 50$ $5 + 5 = 10$ $50 + 10 + 1 = 61$</p>
Vocabulary		Stem Sentences	
<p>part whole total sum add counting tens ones equal equal to same value plus more than less than</p>		<p>The whole is ___ so ___ is a part and ___ is a part (The whole is 10 so 6 is a part and 4 is a part) ___ is a part and ___ is a part so ___ is a whole (7 is a part and 3 is a part so 10 is the whole) The total of ___ and ___ is ____. (The total of 6 and 4 is 10)</p>	

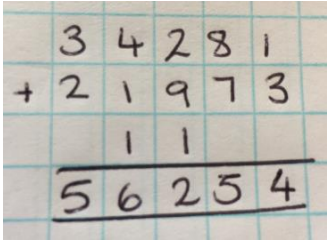
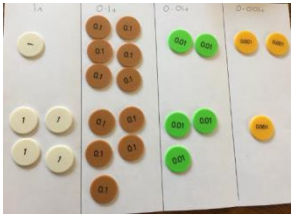
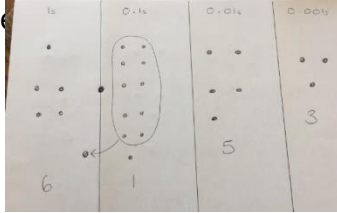
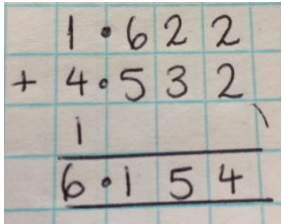
ST NICHOLAS C.E. PRIMARY SCHOOL
ADDITION- YEAR THREE

Objective	Concrete	Pictorial	Abstract
<p>Use of place value counters to add HTO + TO, HTO + HTO</p>	<p>When there are 10 ones in the 1s column – we exchange for 1 ten; when there are 10 tens in the 10s column – we exchange for 1 hundred.</p> 	<p>Children to represent the counters in a place value chart, circling when they make an exchange.</p> 	<p>Formal method</p> 
Vocabulary		Stem Sentences	
<p>part whole total sum add counting tens ones equal equal to same value plus more than less than column hundreds exchange</p>		<p>The whole is ___ so ___ is a part and ___ is a part (The whole is 10 so 6 is a part and 4 is a part) ___ is a part and ___ is a part so ___ is a whole (7 is a part and 3 is a part so 10 is the whole) The total of ___ and ___ is ____. (The total of 6 and 4 is 10) The sum of ___ and ___ is ____. (The sum of 6 and 4 is 10)</p>	

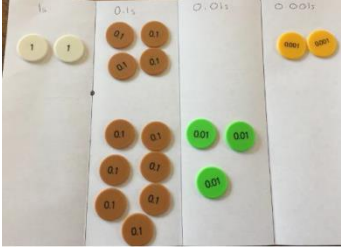
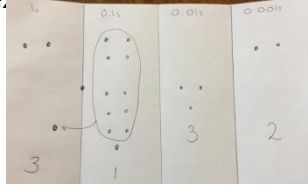
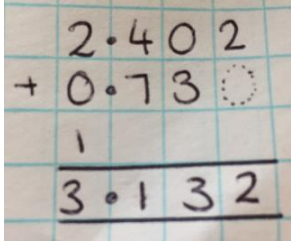
ST NICHOLAS C.E. PRIMARY SCHOOL
ADDITION- YEAR FOUR

Objective	Concrete	Pictorial	Abstract
<p>Use of place value counters to add ThHTO + TO, ThHTO + HTO, ThHTO + ThHTO etc</p>	<p>When there are 10 ones in the 1s column – we exchange for 1 ten; when there are 10 tens in the 10s column – we exchange for 1 hundred; when there are 10 hundreds in the 100s column – we</p> 	<p>Children to represent the counters in a place value chart, circling when they make an exchange.</p> 	<p>Formal method</p> 
Vocabulary		Stem Sentences	
<p>part whole total sum add counting ones equal equal to same value plus more than less than column hundreds exchange thousands</p>		<p>The whole is ____ so ____ is a part and ____ is a part (The whole is 10 so 6 is a part and 4 is a part) ____ is a part and ____ is a part so ____ is a whole (7 is a part and 3 is a part so 10 is the whole) The total of ____ and ____ is ____. (The total of 6 and 4 is 10) The sum of ____ and ____ is ____. (The sum of 6 and 4 is 10)</p>	

ST NICHOLAS C.E. PRIMARY SCHOOL
ADDITION- YEAR FIVE

Objective	Concrete	Pictorial	Abstract
Use of place value counters to add integers			Formal method 
Use of place values to add decimals up to 3 d.p (same number of decimal places.	Exchange counters for the next base 10 unit. 	Children to represent the counters in a place value chart, circling when they make an 	Formal method 
Vocabulary		Stem Sentences	
part whole total sum add counting tens ones equal equal to same value plus more than less than column hunderds exchange thousands decimal tenth hundredth thousandth		The whole is ___ so ___ is a part and ___ is a part (The whole is 10 so 6 is a part and 4 is a part) ___ is a part and ___ is a part so ___ is a whole (7 is a part and 3 is a part so 10 is the whole) The total of ___ and ___ is ____. (The total of 6 and 4 is 10) The sum of ___ and ___ is ____. (The sum of 6 and 4 is 10)	

ST NICHOLAS C.E. PRIMARY SCHOOL
ADDITION- YEAR SIX

Objective	Concrete	Pictorial	Abstract
<p>Use of place values to add decimals up to 3 d.p (different number of decimal places).</p>	<p>Exchange counters for the next base 10 unit.</p> 	<p>Children to represent the counters in a place value chart, circling when they make an exchange.</p> 	<p>Formal method</p> 
<p>Vocabulary</p>		<p>Stem Sentences</p>	
<p>part whole total sum add counting tens ones equal equal to same value plus more than less than column hundreds exchange thousands decimal tenth hundredth thousandth</p>		<p>The whole is ___ so ___ is a part and ___ is a part (The whole is 10 so 6 is a part and 4 is a part) ___ is a part and ___ is a part so ___ is a whole (7 is a part and 3 is a part so 10 is the whole) The total of ___ and ___ is ____. (The total of 6 and 4 is 10) The sum of ___ and ___ is ____. (The sum of 6 and 4 is 10)</p>	