

Language Provision Half-Termly Maths Learning Journey Overview

Spring 2:2024

As Mathematicians we will be focusing on Place Value.

We will be focussing on developing our skills in the following areas:

Recognising and Representing Numbers, Place Value of Numbers, Addition, Subtraction, Multiplication and Division and Fractions.

These learning journeys use the assessment statements for Number from B Squared Connecting Steps.

	Week 1 Mon 19.2.24	Week 2 Mon 26.2.24	Week 3 Mon 4.3.24	Week 4 Mon 11.3.24	Week 5 Mon 18.3.24	Week 6 Mon 25.3.24		
Sequence of Learning:	Place Value Recognising and Representing Numbers Partitioning		Addition and Subtraction More/Less, Greater/Fewer		Multiplication Groups of and arrays Division Sharing			
Progression Step 1	<ul style="list-style-type: none"> ★ Join in number rhymes with the actions. ★ Picks up and puts down single objects. ★ Use counting in play situations. ★ Demonstrate an understanding of 1:1 correspondence. ★ Assist with 1:1 matching activities. ★ Indicates one on request (object, holding up 1 finger) ★ Finds one of the same. ★ Distinguishes between “one” and “lots.” ★ Plays games which use a dice. 		<ul style="list-style-type: none"> ★ Matches an object to another object. ★ Matches picture to picture. ★ Understands the difference between the concepts one, more and all. ★ Demonstrates an understanding of the concept of more. ★ Alerts a member of staff when there are not enough items for 1:1 matching. ★ Responds to “give me some more of..” ★ Requests more of the correct object to complete 1:1 matching. ★ Picks up more than one objects when asked for 2. ★ Contrasts quantities. 		<ul style="list-style-type: none"> ★ Makes a group of objects with assistance. ★ Makes a group of 1. ★ Makes a group of 2. ★ Makes groups of 2. ★ Matches 2 equal sets. ★ Gives 2 things to each person in the group. 		<ul style="list-style-type: none"> ★ Breaks pliable material into pieces. ★ Demonstrates sharing in play situations. ★ Demonstrates some understanding that “share” requires them to distribute some of a group of objects. ★ “Shares” concrete objects between people (not necessarily correctly). ★ Shares concrete objects so that everyone in a group has 1 (in a group of 3 people). ★ Completes 1:1 matching, eg gives an object to each person. 	
Progression Step 2	<p>Numbers to 3</p> <ul style="list-style-type: none"> ★ Identifies numerals up to 3. ★ Match numerals to 3. ★ Identifies whether there are 1, 2 or 3 objects in a group. ★ Sequences numerals to 3. <p>Numbers to 5</p> <ul style="list-style-type: none"> ★ Counts to 5 (joining in with an adult) ★ Says the number names up to 5 in the correct order. ★ Putting together the right number of objects when asked. ★ Puts out quantities to 5. ★ Matches numerals to 5. ★ Sequences numerals to 5. ★ Points to objects as they count. 		<ul style="list-style-type: none"> ★ Compares 2 sets of (up to 5) counters/objects pointing to the group that has more/less. ★ Compares 2 sets of (up to 5) objects pointing to the group that contains smaller/larger. ★ Compares 2 sets of (up to 5) objects pointing to the group that has fewer/greater. ★ Starts to count a set of objects when asked “How many?” 		<ul style="list-style-type: none"> ★ Makes groups of 3. ★ Makes groups of 4. ★ Makes groups of 5. 		<ul style="list-style-type: none"> ★ Shares concrete objects so that everyone has 4.(in a group of people). ★ Shares concrete objects so that everyone has 5 (in a group of people). 	

<p>Progression Step 3</p>	<p>Numbers to 10</p> <ul style="list-style-type: none"> ★ Listens to and joins in with number stories and rhymes. ★ Rote counts to 10 consistently. ★ Count up to 10 objects with some prompting. ★ Identify some numerals up to 10. ★ Matches the numerals 0 – 9 to groups of objects. ★ Identifies how many objects there are in a group of up to 10 objects, recognising smaller groups on sight and counting the objects in larger groups to 10. ★ Demonstrates an understanding the last number counted represents the total number of the count. ★ Recognises when they make an error in counting patterns to 10. ★ Describes the position of objects, people or events using ordinal numbers eg, first, second, third. 	<ul style="list-style-type: none"> ★ Understands the ideas of “not many” and “a lot.” ★ Compares 2 quantities to 10 using the term “more.” ★ Compares 2 quantities to 10 using the term “fewer.” ★ Compares 2 quantities to 10 using the terms “smaller” and “larger.” ★ Identifies the largest and smallest of 2 sets of objects. 	<ul style="list-style-type: none"> ★ Using concrete materials, finds the number before and after and one more and one less from a given number to 10. ★ Adds 1 more objects and counts how many more are needed to make 3. ★ Removes 1 objects and counts how many now (up to 10). ★ Demonstrates an understanding when answering “how many are gone?” ★ Demonstrates an understanding when answering “how many are left?” ★ Uses real life materials to add and subtract 1 from a group of objects and indicates how many are now present. ★ Explains the meaning of the terms “add, altogether, make and more” using simple language. ★ Takes away objects from a group when asked to subtract. ★ Explains the meaning of “take away” in simple language. 	<ul style="list-style-type: none"> ★ Combines 2 equal groups. ★ Begin to double numbers to 10. 	<ul style="list-style-type: none"> ★ Shares objects between 2 plates. ★ Shares objects into groups. ★ Talks about half in conversations.
<p>Year 1</p>	<ul style="list-style-type: none"> ★ Reads and writes numbers in numerals 0-9. ★ Identifies the position of an objects using ordinal numbers to 10th. ★ Relates ordinal numbers to cardinal numbers. ★ Reads numbers to 100. ★ Counts from 0-100. ★ Count from 100 -0. ★ Counts backwards and forwards between 2 given numbers up to 100 with support. ★ Be aware of the place value of numbers beyond 20 with support. 	<ul style="list-style-type: none"> ★ Given a number, identifies 1 more and 1 less with support. ★ Demonstrates an understanding of the mathematical symbols of add, subtract and equal to. ★ Reads and writes the signs +, - and =. ★ Uses concrete and pictorial representation. ★ Adds 2 numbers to make 10. ★ Adds 2 numbers to make 20 (including 0). ★ Subtracts 1 number from 10. ★ Subtracts 1 numbers from 20 (including 0). ★ Recalls number bonds to 10. ★ Recalls at least four of the six number bonds for 10 and reasons about associated facts 	<ul style="list-style-type: none"> ★ Counts on and back. ★ Moves forwards and backwards along a number line with confidence. ★ Solves 1-step problems using addition and subtraction with concrete or pictorial objects. ★ Solves number problems involving the addition and subtraction of single-digit numbers up to 10. ★ Demonstrates an understanding that the number of objects remains the same when they are rearranged providing nothing has been added or taken away. ★ Demonstrates an understanding that the total number of objects changes when objects are added or taken away. 	<ul style="list-style-type: none"> ★ Counts in 2s, 5s and 10s to 100. ★ Counts in 2s, 5s and 10s starting from different numbers. ★ Places objects in an array. ★ Count objects in an array. ★ Identifies patterns in an array. ★ Calculates multiplication problems with support. 	<ul style="list-style-type: none"> ★ Creates groups of small quantities eg, sharing into a group of five or two. ★ Shares small quantities into groups. ★ Calculates division problems with support

		(eg $6+4 = 10$ therefore $4 + 6 = 10$ and $10 - 6 = 4$).			
Year 2	<ul style="list-style-type: none"> ★ Include different representations, eg to identify or estimate numbers to 100. ★ Orders numbers to 100. ★ Compares numbers to 100. ★ Estimate numbers to 100. ★ Partition a 2-digit number into tens and ones to demonstrate an understanding of place value, using structured resources. ★ Partition any 2-digit number into different combinations of tens and ones, in pictures or using apparatus. ★ Identify the value of each digit in a 2 digit number. ★ Demonstrates the knowledge of 0 as a place holder. ★ Use place value and number facts to solve problems. 	<ul style="list-style-type: none"> ★ Compare numbers to 100. ★ Compares numbers to 100 using $<$, $>$ and $=$. ★ Recalls all number bonds to and within 10 and uses these to reason with and calculate bonds to and within 20. ★ Know number bonds to 20. 	<ul style="list-style-type: none"> ★ Using concrete pictorial aids, add and subtract: <ul style="list-style-type: none"> ➢ Two digit number to single digit ➢ Two digit number to tens ➢ Two, two digit numbers ➢ Three single digit numbers. ➢ One digit from a two digit number ➢ Two digit number from tens. ➢ Two digits from two digit numbers. ➢ Use bonds with related facts to 100. ★ Recognise that addition can be done in any order and subtraction cannot. ★ Recognise that subtraction is the inverse of addition. ★ Records addition and subtract in columns. ★ Partitions numbers to simplify a problem. ★ Solves problems using mental methods. 	<ul style="list-style-type: none"> ★ Recognise odd and even numbers. ★ Understands multiplication as repeated addition. ★ Counts in 2s, 5s and 10s from 0 and uses this to solve problems. ★ Reads and writes the signs "x" and \div. ★ Writes number statements using the correct signs. ★ Solves problems using arrays. ★ Calculates multiplication statements within the multiplication tables. 	<ul style="list-style-type: none"> ★ Recalls multiplication and division facts for 2, 5 and 10 times tables. ★ Recognise that division cannot be done in any order. ★ Solves problems using multiplication and division facts. ★ Solves multiplication and division problems (within the 2, 5 and 10 times tables) mentally.
Year 3	<ul style="list-style-type: none"> ★ Reads, writes and compares numbers to 1000. ★ Identifies, represents and estimates simple numbers using different representations. ★ Recognises the place value of each digit in a 3-digit number. ★ Use partitioning related to place value to solve problems. ★ Solve unfamiliar word problems that involve more than one step. ★ Use reasoning about numbers and relationships to solve more complex 	<ul style="list-style-type: none"> ★ Finds 10 more and less than a given number. ★ Finds 100 more and less than a given number. ★ Adds and subtracts a three-digit number and ones mentally. ★ Add and subtracts a three-digit number and tens mentally. ★ Adds and subtracts a three-digit number and hundreds mentally. 	<ul style="list-style-type: none"> ★ Adds and subtracts numbers with up to 3 digits, using formal written methods. ★ Checks their answer using the inverse operation. ★ Solves problems and finds missing numbers. ★ Use place value to solve problems. 	<ul style="list-style-type: none"> ★ Counts from 0 in multiples of 50 and 100. ★ Counts from 0 in multiples of 4 and 8. ★ Recall multiplication facts for 3, 4 and 8 times tables. ★ Connect 2, 4 and 8 times tables through doubling. ★ Multiplies a 2 digit number by a 1 digit number for known tables. ★ Finds missing numbers in multiplication stories. 	<ul style="list-style-type: none"> ★ Recalls division facts for 3, 4 and 8 times tables. ★ Recalls and uses multiplication and division facts for 2, 5 and 10 and makes deductions outside known multiplication facts. ★ Writes mathematical statements. ★ Finds missing numbers in division stories. ★ Checks their answer using the inverse operation.

	problems and explain their thinking.				
Year 4	<ul style="list-style-type: none"> ★ Order numbers beyond 1000. ★ Finds 1000 more or less than a given number. ★ Recognise the place value of each digit in a four-digit number. ★ Partitions four-digit numbers. ★ Compares numbers beyond 1000. ★ Round numbers to the nearest 10, 100 or 100 and relate rounding to measuring instruments. 	<ul style="list-style-type: none"> ★ Counts backwards through zero to include negative numbers. ★ Understands negative numbers in relation to familiar uses. ★ Places positive and negative numbers on a number line. 	<ul style="list-style-type: none"> ★ Adds 2, 3 and 4 digit numbers. ★ Add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate. ★ Use inverse operations to check an estimated answer. ★ Mentally adds and subtracts up to 4-digit numbers. 	<ul style="list-style-type: none"> ★ Recalls multiples of 10 and 100. ★ Recalls doubles and halves of 2-digit numbers. ★ Counts from 0 in multiples of 6, 7 and 9. ★ Counts from 0 in multiples of 25 and 1000. ★ Multiplies by 0 and 1. ★ Multiply together three numbers. ★ Multiply 2 digit numbers by a 1 digit number using the formal written layout. ★ Solves problems involving multiplying and adding. 	<ul style="list-style-type: none"> ★ Divides 2 digit numbers by a 1 digit number. ★ Recalls multiplication and division facts for tables up to 12 x 12. ★ Multiplies and divides mentally using place value and known facts. ★ Calculates using formal written methods for multiplication and division. ★ Solves correspondence problems. ★ Solves mental calculations using number facts.