

### Mathology 2 Correlation (Number) – Newfoundland and Labrador

What Would You Rather?	Progression
What Would You Rather?	Die Idea Niverbaus tell verbaus many and baus mouch
<ul> <li>Ways to Count</li> <li>Family Fun Day</li> <li>Array's Bakery</li> <li>To Scaffold: <ul> <li>On Safari!</li> <li>How Many is Too Many?</li> </ul> </li> <li>To Extend: <ul> <li>Finding Buster</li> <li>How Numbers Work</li> <li>Calla's Jingle Dress</li> </ul> </li> </ul>	Big Idea: Numbers tell us how many and how much.  Applying the principles of counting  - Fluently skip-counts by factors of 10 (e.g., 2, 5, 10) and multiples of 10 from any given number.  Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units.  Unitizing quantities and comparing units to the whole  - Partitions into and skip-counts by equal-sized units and recognizes that the results will be the same when counted by ones (e.g., counting a set by 1s or by 5s gives the same result)  - Recognizes that, for a given quantity, increasing the number of sets decreases the number of objects in each set.  - Recognizes and describes equal-sized sets as units within a larger set.  Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.  Representing and generalizing increasing/decreasing patterns  - Identifies and extends familiar number patterns
	<ul> <li>Family Fun Day</li> <li>Array's Bakery</li> <li>To Scaffold:</li> <li>On Safari!</li> <li>How Many is Too Many?</li> <li>To Extend:</li> <li>Finding Buster</li> <li>How Numbers Work</li> </ul>



2N1b Say the number sequence from 0 to 100 by:  10s, using starting points from 1 to 9	Teacher Cards Cluster 1: Counting 3: Skip-Counting Flexibly Cluster 3: Grouping and Place Value 14: Making a Number Line  Math Every Day Cards 1A: Skip-Counting from Any Number 1B: Skip-Counting with Actions 3A: Adding Ten Taking Away Ten 3B: Thinking Tens 9: Collections of Coins	Ways to Count	Big Idea: Numbers tell us how many and how much.  Applying the principles of counting  - Fluently skip-counts by factors of 10 (e.g., 2, 5, 10) and multiples of 10 from any given number.  Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units.  Unitizing quantities into ones, tens, and hundreds place-value concepts  - Determines 10 more/less than a given number without counting.  Unitizing quantities and comparing units to the whole  - Partitions into and skip-counts by equal-sized units and recognizes that the results will be the same when counted by ones (e.g., counting a set by 1s or by 5s gives the same result).
2N1c Say the number sequence from 0 to 100 by:  • 2s, starting from 1.	Teacher Card Cluster 1: Counting 3: Skip-Counting Flexibly  Math Every Day Card 1A: Skip-Counting from Any Number	Ways to Count	Big Idea: Numbers tell us how many and how much.  Applying the principles of counting - Fluently skip-counts by factors of 10 (e.g., 2, 5, 10) and multiples of 10 from any given number.  Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units.  Unitizing quantities and comparing units to the whole - Partitions into and skip-counts by equal-sized units and recognizes that the results will be the same when counted by ones (e.g., counting a set by 1s or by 5s gives the same result).
2N2 Demonstrate if a number (up to 100) is even or odd.	Teacher Cards Cluster 2: Number Relationships 1 8: Odd and Even Numbers 12: Number Relationships 1 Consolidation  Math Every Day Cards 2A: Show Me in Different Ways Guess My Number 2B: Math Commander	Ways to Count	Big Idea: Numbers are related in many ways.  Comparing and ordering quantities (multitude or magnitude)



2N3 Describe order or	Teacher Cards	To Scaffold:	Big Idea: Numbers are related in many ways.
relative position, using	Cluster 2: Number Relationships 1	At the Corn Farm	Comparing and ordering quantities (multitude or
ordinal numbers (up to	9: Ordinal Numbers		magnitude)
tenth).	12: Number Relationships 1		- Determines and describes the relative position of
	Consolidation		objects using ordinal numbers.
	Consolidation		- Uses ordinal numbers in context.
	Math Every Day Card		Big Idea: Quantities and numbers can be grouped by
	2B: Math Commander		or partitioned into equal-sized units.
	2B. Wath Commander		Unitizing quantities and comparing units to the whole
			- Partitions and skip-counts by equal-sized units and
			recognizes that the results will be the same when
			counted by ones (e.g., counting a set by 1s or by 5s
			gives the same result).
2N4 Represent and	Teacher Cards	What Would You Rather?	Big Idea: Numbers tell us how many and how much.
describe numbers to 100,	Cluster 1: Counting	Ways to Count	Applying the principles of counting
concretely, pictorially and	1: Bridging Tens	• Family Fun Day	- Fluently skip-counts by factors of 10 (e.g., 2, 5, 10) and
symbolically.	Cluster 2: Number Relationships 1	Back to Batoche	multiples of 10 from any given number
	11: Decomposing to 20	A Class-full of Projects	Recognizing and writing numerals
	12: Number Relationships 1 Consolidation	The Money Jar	- Names, writes, and matches two-digit numerals to
	Cluster 3: Grouping and Place Value		quantities.
	13: Building Numbers	To Scaffold:	Big idea: Numbers are related in many ways.
	15: Grouping to Count	• That's 10!	Decomposing wholes into parts and composing
	16: Grouping and Place Value Consolidation	<ul> <li>Canada's Oldest Sport</li> </ul>	wholes from parts - Decomposes/composes quantities to 20.
	Cluster 5: Number Relationships 2		- Composes two-digit numbers from parts (e.g., 14 and
	23: Decomposing 50	To Extend:	14 is 28), and decomposes two-digit numbers into
	24: Jumping on the Number Line	Fantastic Journeys	parts (e.g., 28 is 20 and 8)
	25: Number Relationships 2 Consolidation	Finding Buster	Big Idea: Quantities and numbers can be grouped
	Cluster 9: Financial Literacy	How Numbers Work	by or partitioned into equal-sized units.
	43: Estimating Money	Math Makes Me Laugh	Unitizing quantities into ones, tens, and hundreds
	44: Earning Money	The Street Party	place-value concepts
	3 3 3,		- Writes, reads, composes, and decomposes two-digit
	Math Every Day Cards		numbers as units of tens and leftover ones.
	2A: Show Me in Different Ways		Unitizing quantities and comparing units to the whole
	Guess My Number		- Partitions into and skip-counts by equal-sized units
	2B: Building an Open Number Line		and recognizes that the results will be the same when
			counted by ones (e.g., counting a set by 1s or by 5s
	5A: Building Numbers		gives the same result).
	5B: How Many Ways?		
	What's the Unknown Part?		
ı	9: Showing Money in Different Ways		



2N5 Compare and order	Teacher Cards	• What Would You Rather?	Big idea: Numbers are related in many ways
numbers up to 100.	Cluster 1: Counting  1: Bridging Tens  Cluster 2: Number Relationships 1  6: Comparing Quantities  7: Ordering Quantities  12: Number Relationships 1  Consolidation  Cluster 3: Grouping and Place Value  14: Making a Number Line  Math Every Day Cards  2A: Show Me in Different Ways  Guess My Number  2B: Building an Open Number Line  5A: Which Ten is Nearer?	<ul> <li>Back to Batoche</li> <li>The Great Dogsled Race</li> <li>To Scaffold:</li> <li>A Family Cookout</li> <li>At the Corn Farm</li> <li>How Many is Too Many?</li> <li>To Extend:</li> <li>Fantastic Journeys</li> <li>Finding Buster</li> <li>Math Makes Me Laugh</li> <li>The Street Party</li> <li>Planting Seeds</li> </ul>	Comparing and ordering quantities (multitude or magnitude)  - Compares and orders quantities and written numbers using benchmarks.  - Determines how many more/less one quantity is compared to another.
2N6 Estimate quantities to 100, using referents.	Teacher Cards Cluster 2: Number Relationships 1 10: Estimating with Benchmarks Cluster 5: Number Relationships 2 22: Benchmarks on a Number Line Cluster 9: Financial Literacy 43: Estimating Money	<ul> <li>What Would You Rather?</li> <li>Ways to Count</li> <li>To Scaffold:</li> <li>A Family Cookout</li> <li>At the Corn Farm</li> <li>How Many is Too Many?</li> <li>To Extend:</li> <li>Fantastic Journeys Math Finding Buster</li> <li>Makes Me Laugh</li> <li>Planting Seeds</li> <li>Sports Camp</li> </ul>	Big Idea: Numbers are related in many ways.  Estimating quantities and numbers  - Uses relevant benchmarks to compare and estimate quantities (e.g., more/less than 10; multiples of ten).



<b>2N7</b> Illustrate, concretely and pictorially, the meaning of place value for numbers to 100.	Teacher Cards Cluster 3: Grouping and Place Value 13: Building Numbers 16: Grouping and Place Value Consolidation  Math Every Day Cards 3A: Adding Ten Taking Away Ten 3B: Thinking Tens Describe Me	<ul> <li>Back to Batoche</li> <li>A Class-full of Projects</li> <li>The Money Jar</li> <li>To Scaffold: <ul> <li>At the Corn Farm</li> </ul> </li> <li>To Extend: <ul> <li>Finding Buster</li> <li>How Numbers Work</li> </ul> </li> </ul>	Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units.  Unitizing quantities into ones, tens, and hundreds (place-value concepts)  - Writes, reads, composes, and decomposes two-digit numbers as units of tens and leftover ones.
2N8 Demonstrate and explain the effect of adding zero to, or subtracting zero from, any number.	Teacher Cards Cluster 6: Conceptualizing Addition and Subtraction 26: Exploring Properties Cluster 7: Operational Fluency 32: Complements of 10	To Scaffold: • That's 10!	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.  Developing conceptual meaning of addition and subtraction  - Uses symbols and equations to represent addition and subtraction situations.  Developing fluency of addition and subtraction computation  - Fluently adds and subtracts with quantities to 10.  - Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3).  Big Idea: Patterns and relations can be represented with symbols, equations, and expressions.  Understanding equality and inequality, building on generalized properties of numbers and operations  - Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition).



2N9a Demonstrate an understanding of addition (limited to one- and two-digit numerals) with answers to 100 and the corresponding subtraction by:

 using personal strategies for adding and subtracting with and without the support of manipulatives

#### **Teacher Cards**

# Cluster 3: Grouping and Place Value

14: Making a Number Line

## Cluster 6: Conceptualizing Addition and Subtraction

- 27: Solving Problems 1
- 28: Solving Problems 2
- 29: Solving Problems 3
- 30: Solving Problems 4
- 31: Conceptualizing Addition and Subtraction Consolidation

#### **Cluster 9: Financial Literacy**

- 43: Estimating Money
- 44: Earning Money
- 46: Saving Regularly

#### **Math Every Day Cards**

3A: Adding Ten

Taking Away Ten

7A: I Have... I Need... Hungry Bird

#### Array's Bakery

- Marbles, Alleys, Mibs, and Guli!
- A Class-full of Projects
- The Money Jar
- The Great Dogsled Race

#### To Scaffold:

- On Safari!
- That's 10!
- Hockey Time!
- Cats and Kittens
- Buy 1 Get 1
- Canada's Oldest Sport

#### To Extend:

- Math Makes Me Laugh
- The Street Party
- Planting Seeds
- Sports Camp
- Calla's Jingle Dress

### Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.

### Developing conceptual meaning of addition and subtraction

- Uses symbols and equations to represent addition and subtraction situations.
- Models and symbolizes addition and subtraction problem types (i.e., join, separate, part-part-whole, and compare).

## Developing fluency of addition and subtraction computation

- Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6).

#### Big idea: Numbers are related in many ways

### Decomposing wholes into parts and composing wholes from parts

- Composes two-digit numbers from parts (e.g., 14 and 14 is 28), and decomposes two-digit numbers into parts (e.g., 28 is 20 and 8)



<b>2N9b</b> Demonstrate an understanding of addition	Teacher Cards Cluster 6: Conceptualizing	Array's Bakery     Marbles, Alleys, Mibs, and	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.
<ul> <li>(limited to one- and two-digit numerals) with answers to 100 and the corresponding subtraction by:</li> <li>creating and solving problems that involve addition and subtraction</li> </ul>	Addition and Subtraction 27: Solving Problems 1 28: Solving Problems 2 29: Solving Problems 3 30: Solving Problems 4 31: Conceptualizing Addition and Subtraction Consolidation  Math Every Day Cards 6: What Math Do You See? What Could the Story Be? 7B: Hungry Bird	Guli!  • A Class-full of Projects  • The Money Jar  • The Great Dogsled Race  To Scaffold:  • On Safari!  • That's 10!  • Hockey Time!  • Cats and Kittens  • Buy 1 – Get 1  • Canada's Oldest Sport  To Extend:  • Math Makes Me Laugh  • The Street Party  • Planting Seeds  • Sports Camp  • Calla's Jingle Dress	<ul> <li>Developing conceptual meaning of addition and subtraction</li> <li>Uses symbols and equations to represent addition and subtraction situations.</li> <li>Models and symbolizes addition and subtraction problem types (i.e., join, separate, part-part-whole, and compare).</li> <li>Developing fluency of addition and subtraction computation</li> <li>Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6).</li> <li>Big idea: Numbers are related in many ways</li> <li>Decomposing wholes into parts and composing wholes from parts</li> <li>Composes two-digit numbers from parts (e.g., 14 and 14 is 28), and decomposes two-digit numbers into parts (e.g., 28 is 20 and 8)</li> </ul>
<ul> <li>2N9c Demonstrate an understanding of addition (limited to one- and two-digit numerals) with answers to 100 and the corresponding subtraction by:</li> <li>explaining that the order in which numbers are added does not affect the sum (commutative property)</li> </ul>	Teacher Cards Cluster 6: Conceptualizing Addition and Subtraction 26: Exploring Properties Cluster 7: Operational Fluency 32: Complements of 10	<ul> <li>Array's Bakery</li> <li>Marbles, Alleys, Mibs, and Guli!</li> <li>A Class-full of Projects</li> <li>The Money Jar</li> <li>The Great Dogsled Race</li> <li>To Scaffold:</li> <li>That's 10!</li> </ul>	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.  Developing conceptual meaning of addition and subtraction  - Uses symbols and equations to represent addition and subtraction situations.  Developing fluency of addition and subtraction computation  - Fluently adds and subtracts with quantities to 10.  - Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3).  Big Idea: Patterns and relations can be represented with symbols, equations, and expressions.  Understanding equality and inequality, building on generalized properties of numbers and operations  - Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition).  Big idea: Numbers are related in many ways  Decomposing wholes into parts and composing wholes from parts  - Composes two-digit numbers from parts (e.g., 14 and 14 is 28), and decomposes two-digit numbers into



2N9d Demonstrate an
understanding of addition
(limited to one- and two-
digit numerals) with
answers to 100 and the
corresponding subtraction
by:
• ovalaining that the

 explaining that the order in which numbers are subtracted may affect the difference

# Teacher Cards Cluster 6: Conceptualizing Addition and Subtraction

26: Exploring Properties

- Array's Bakery
- Marbles, Alleys, Mibs, and Guli!
- A Class-full of Projects
- The Money Jar
- The Great Dogsled Race

### Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.

### Developing conceptual meaning of addition and subtraction

 Uses symbols and equations to represent addition and subtraction situations.

### Developing fluency of addition and subtraction computation

- Fluently adds and subtracts with quantities to 10.
- Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3).

## Big Idea: Patterns and relations can be represented with symbols, equations, and expressions.

### Understanding equality and inequality, building on generalized properties of numbers and operations

 Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition).

#### Big idea: Numbers are related in many ways

### Decomposing wholes into parts and composing wholes from parts

- Composes two-digit numbers from parts (e.g., 14 and 14 is 28), and decomposes two-digit numbers into parts (e.g., 28 is 20 and 8)



**2N10** Apply mental mathematics strategies for the basic addition and related subtraction facts to 18.

#### **Teacher Cards**

#### Cluster 2: Number Relationships 1

- 11: Decomposing to 20
- 12: Number Relationships 1
  Consolidation

#### **Cluster 7: Operational Fluency**

- 32: Complements of 10
- 33: Using Doubles
- 34: Fluency with 20
- 36: Operational Fluency

Consolidation

# **Cluster 8: Early Multiplicative Thinking**

- 40: Exploring Repeated Addition
- 42: Early Multiplicative Thinking Consolidation

#### **Math Every Day Cards**

- 6: What Math Do You See?
- 7A: Doubles and Near-Doubles I Have... I Need...
- 7B: Hungry Bird
  Make 10 Sequences

- Array's Bakery
- Marbles, Alleys, Mibs, and Guli!
- A Class-full of Projects
- The Money Jar
- The Great Dogsled Race
- Kokum's Bannock

#### To Scaffold:

- On Safari!
- That's 10!
- Hockey Time!
- Cats and Kittens
- Buy 1 Get 1
- Canada's Oldest Sport

#### To Extend:

- Math Makes Me Laugh
- Planting Seeds
- Sports Camp

### Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.

## Developing conceptual meaning of addition and subtraction

- Uses symbols and equations to represent addition and subtraction situations.
- Models and symbolizes addition and subtraction problem types (i.e., join, separate, part-part-whole, and compare).

## Developing fluency of addition and subtraction computation

- Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3).
- Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6).
- Fluently adds and subtracts with quantities to 20.

# Big Idea: Patterns and relations can be represented with symbols, equations, and expressions.

### Understanding equality and inequality, building on generalized properties of numbers and operations

- Decomposes and combines numbers in equations to make them easier to solve
- Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition).





### Mathology 2 Correlation (Patterns and Relations) – Newfoundland and Labrador

Specific Curriculum	Mathology Grade 2 Classroom	Mathology Little Books	Pearson Canada K-3 Mathematics Learning
Outcomes	Activity Kit		Progression
Patterns and Relations (I	Patterns)		
Patterns and Relations (I  2PR1 Demonstrate an understanding of repeating patterns (three to five elements) by:	Teacher Cards Cluster 1: Repeating Patterns 1: Exploring Patterns 2: Extending and Predicting 3: Errors and Missing Elements* 4: Combining Attributes 5: Repeating Patterns Consolidation  Math Every Day Card 1: Show Another Way Repeating Patterns Around Us  *Use Student Cards 3B and 3D to find missing elements, as finding errors is not required by your curriculum.	Pattern Quest  To Scaffold:     Midnight and Snowfall!	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.  Identifying, reproducing, extending, and creating patterns that repeat  - Identifies the repeating unit (core) of a pattern.  - Predicts missing element(s) and corrects errors in repeating patterns.  - Reproduces, creates, and extends repeating patterns based on copies of the repeating unit (core).  - Represents the same pattern in different ways (i.e., translating to different symbols, objects, sounds, actions).  - Compares repeating patterns and describes how they are alike and different.
			- Recognizes, extends, and creates repeating patterns based on two or more attributes (e.g., shape and orientation).
			- Identifies the repeating unit of patterns in multiple forms (e.g., circular, 2-D, 3-D).



**2PR2** Demonstrate an **Teacher Cards** • The Best Surprise Big Idea: Regularity and repetition form patterns that understanding of increasing **Cluster 2: Increasing/Decreasing Patterns** can be generalized and predicted mathematically. patterns by: 6: Increasing Patterns 1 To Scaffold: Representing and generalizing increasing/decreasing • Midnight and Snowfall! describing 7: Increasing Patterns 2 patterns 9: Extending Patterns reproducing - Identifies and extends non-numeric increasing/ extending 10: Reproducing Patterns To Extend: decreasing patterns (e.g., jump-clap; jump-clap-clap; creating 11: Creating Patterns Namir's Marvellous jump-clap-clap clap, etc.). numerical (numbers to 12: Errors and Missing Terms Masterpieces - Identifies and extends familiar number patterns and 13: Solving Problems makes connections to addition (e.g., skip-counting by 100) and non-numerical 14: Consolidation 2s, 5s, 10s). patterns using Identifies, reproduces, and extends increasing/ manipulatives, diagrams, **Math Every Day Cards** decreasing patterns concretely, pictorially, and sounds and actions. 2A: How Many Can We Make? numerically using repeated addition or subtraction. Error Hunt -Extends number patterns and finds missing elements 2B: Making Increasing Patterns (e.g., 1, 3, 5, \_\_\_, 9, ...). Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing fluency of addition and subtraction computation - Fluently adds and subtracts with quantities to 20. Patterns and Relations (Variables and Equations) **2PR3** Demonstrate and **Teacher Cards** • Kokum's Bannock Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. explain the meaning of Cluster 3: Equality and Inequality To Scaffold: Understanding equality and inequality, building on 15: Equal and Unequal Sets equality and inequality by Nutty and Wolfy generalized properties of numbers and operations 16: Equal or Not Equal? using manipulatives and - Compares sets to determine more/less or equal. 17: Exploring Number Sentences diagrams (0-100). To Extend: - Creates a set that is more/less or equal to a given set. 20. Equality and Inequality Consolidation A Week of Challenges - Models and describes equality (balance; the same as) and inequality (imbalance; not the same as). **2PR4** Record equalities **Math Every Day Cards** - Records different expressions of the same quantity as and inequalities equalities (e.g., 2 + 4 = 5 + 1). 3A: Equal or Not Equal? symbolically, using the Using symbols, unknowns, and variables to represent **How Many Ways?** equal symbol or the not mathematical relations 3B: Which One Doesn't Belong? equal symbol. - Uses the equal (=) symbol in equations and knows its meaning (i.e., equivalent; is the same as). - Understands and uses the equal (=) and not equal (≠)



symbols when comparing expressions.



### Mathology 2 Correlation (Shape and Space) – Newfoundland and Labrador

Specific Curriculum	Mathology Grade 2 Classroom	Mathology Little Books	Pearson Canada K-3 Mathematics Learning				
Outcomes	Activity Kit		Progression				
Shape and Space (Measu	hape and Space (Measurement)						
2551 Relate the number of days to a week and the number of months to a year in a problem-solving context.	Teacher Cards Measurement Cluster 3: Time and Temperature 13: Days and Weeks 14: Months in a Year  Math Every Day Cards 3A: Calendar Questions 3B: Monthly Mix-Up	To Extend: • Goat Island	Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons.  Understanding relationships among measurement units  - Understands relationship of units of length (mm, cm, m), mass (g, kg), capacity (mL, L), and time (e.g., seconds, minutes, hours).  Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared.  Understanding attributes that can be measured  - Explores measurement of visible attributes (e.g., length, capacity, area) and non-visible attributes (e.g., mass, time, temperature)  Big Idea: Numbers are related in many ways.  Comparing and ordering quantities (multitude or				
			magnitude) - Uses ordinal numbers in context (e.g., days on a calendar: the 3rd of March)				
2SS2 Relate the size of a unit of measure to the number of units (limited to non-standard units) used to measure length and mass.	Teacher Cards Measurement Cluster 1: Using Non- Standard Units 1: Measuring Length 1 4: Measuring Mass	To Scaffold: The Amazing Seed Animal Measures  To Extend: Goat Island The Bunny Challenge Measurements About YOU!	Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons  Understanding relationships among measurement units - Understands the inverse relationship between the size of the unit and the number of units (length, area, capacity, and mass).				



<b>2SS3</b> Compare and order objects by length, height,	Teacher Cards Measurement Cluster 1: Using Non-	• Getting Ready for School • The Discovery	Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons.
distance around and mass, using non-standard units, and make statements of comparison.	Standard Units  1: Measuring Length 1  2: Measuring Distance Around  4: Measuring Mass  7: Using Non-Standard Units Consolidation  Math Every Day Card  1: Estimation Scavenger Hunt Estimation Station	To Scaffold:  • The Amazing Seed  • Animal Measures  To Extend:  • Goat Island  • The Bunny Challenge  • Measurements About YOU!	Selecting and using non-standard units to estimate, measure, and make comparisons  - Understands that there should be no gaps or overlaps when measuring.  - Demonstrates ways to estimate, measure, compare, and order objects by length, area, capacity, and mass with non-standard units by  • using an intermediary object  • using multiple copies of a unit  • iterating a single unit  - Selects and uses appropriate non-standard units to estimate, measure, and compare length, area, capacity, and mass.  Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared.  Understanding attributes that can be measured  - Understands that some things have more than one attribute that can be measured (e.g., an object can have both length and mass).  - Extends understanding of length to other linear measurements (e.g., height, width, distance around).
2SS4 Measure length to the nearest non-standard	Teacher Cards Measurement Cluster 1: Using Non-	Getting Ready for School     The Discovery	Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons.
unit by:  • using multiple copies of a unit  • using a single copy of a unit (iteration process).	Standard Units  1: Measuring Length 1  2: Measuring Length 2  7: Using Non-Standard Units  Consolidation	To Scaffold:  • The Amazing Seed  • Animal Measures  To Extend:  • Goat Island  • The Bunny Challenge  • Measurements About YOU!	Selecting and using non-standard units to estimate, measure, and make comparisons  - Understands that there should be no gaps or overlaps when measuring.  - Demonstrates ways to estimate, measure, compare, and order objects by length, area, capacity, and mass with non-standard units by  • using multiple copies of a unit  • iterating a single unit
changing the orientation of an object does not alter the measurements of its attributes.	Teacher Card Measurement Cluster 1: Using Non- Standard Units 1: Measuring Length	To Extend:	Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared.  Understanding attributes that can be measured  - Understands conservation of length (e.g., a string is the same length when straight and not straight), capacity (e.g., two differently shaped containers may hold the same amount), and area (e.g., two surfaces of different shapes can have the same area).



jects and 2-D Shapes)		
Teacher Cards Geometry Cluster 1: 2-D Shapes 1: Sorting 2-D Shapes Geometry Cluster 2: 3-D Solids 6: Sorting 3-D Solids  Math Every Day Card 2B: Which Solid Does Not Belong?	I Spy Awesome Buildings     Sharing Our Stories  To Scaffold:     What Was Here?	Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.  Investigating geometric attributes and properties of 2-D shapes and 3-D solids  - Compares 2-D shapes and 3-D solids to find the similarities and differences.  - Analyzes geometric attributes of 2-D shapes and 3-D solids (e.g., number of sides, corners).  - Classifies and names 2-D shapes based on common attributes  Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.
Teacher Cards	• I Spy Awesome Buildings	Identifying, sorting, and classifying attributes and patterns mathematically (e.g., number of sides, shape size)  - Identifies the sorting rule used to sort sets.  - Sorts a set of objects based on two attributes.  Big Idea: 2-D shapes and 3-D solids can be analyzed
Geometry Cluster 2: 3-D Solids 6: Sorting 3-D Solids 8: Constructing 3-D Solids 9: Constructing Skeletons 10: 3-D Solids Consolidation Geometry Cluster 3: Geometric Relationships 13: Visualizing Shapes and Solids  Math Every Day Cards 2A: Geometry in Poetry What Do You See? 3B: Name the Solid	To Scaffold:  • What Was Here?  To Extend:  • WONDERful Buildings	<ul> <li>and classified in different ways by their attributes.</li> <li>Investigating geometric attributes and properties of 2. D shapes and 3-D solids</li> <li>Compares 2-D shapes and 3-D solids to find the similarities and differences.</li> <li>Analyzes geometric attributes of 2-D shapes and 3-D solids (e.g., number of sides, corners).</li> <li>Classifies and names 2-D shapes based on common attributes</li> <li>Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).</li> </ul>
	Teacher Cards Geometry Cluster 1: 2-D Shapes 1: Sorting 2-D Shapes Geometry Cluster 2: 3-D Solids 6: Sorting 3-D Solids  Math Every Day Card 2B: Which Solid Does Not Belong?  Teacher Cards Geometry Cluster 2: 3-D Solids 6: Sorting 3-D Solids 8: Constructing 3-D Solids 9: Constructing Skeletons 10: 3-D Solids Consolidation Geometry Cluster 3: Geometric Relationships 13: Visualizing Shapes and Solids  Math Every Day Cards 2A: Geometry in Poetry What Do You See?	Teacher Cards Geometry Cluster 1: 2-D Shapes 1: Sorting 2-D Shapes Geometry Cluster 2: 3-D Solids 6: Sorting 3-D Solids  Math Every Day Card 2B: Which Solid Does Not Belong?  Teacher Cards Geometry Cluster 2: 3-D Solids 6: Sorting 3-D Solids 6: Sorting 3-D Solids 6: Sorting 3-D Solids 8: Constructing 3-D Solids 9: Constructing Skeletons 10: 3-D Solids Consolidation Geometry Cluster 3: Geometric Relationships 13: Visualizing Shapes and Solids  Math Every Day Cards 2A: Geometry in Poetry What Do You See?



Taashar Cards	• I Say Awasama Buildings	Big Idea: 2-D shapes and 3-D solids can be analyzed
		and classified in different ways by their attributes.
	Sharing Our Stories	Investigating geometric attributes and properties of
	To Scoffold:	
	100000000000000000000000000000000000000	2-D shapes and 3-D solids
•		- Compares 2-D shapes to find the similarities and
	• The Tallor Shop	differences.
-		- Analyzes geometric attributes of 2-D shapes (e.g.,
•		number of sides, corners).
13: Visualizing Shapes and Solids	<u> </u>	- Classifies and names 2-D shapes based on common
	Gallery Tour	attributes.
		- Constructs and compares 2-D shapes with given
<b>.</b>		attributes (e.g., number of vertices).
		Big Idea: Regularity and repetition form patterns
3B: Draw the Shape		that can be generalized and predicted
		mathematically.
		Identifying, sorting, and classifying attributes and
		patterns mathematically (e.g., number of sides,
		shape, size)
		- Identifies the sorting rule used to sort sets.
		- Sorts a set of objects based on two attributes.
Teacher Cards	I Spy Awesome Buildings	Big Idea: 2-D shapes and 3-D solids can be analyzed
Geometry Cluster 2: 3-D Solids	Sharing Our Stories	and classified in different ways by their attributes.
7: 3-D Solids Around Us		Investigating geometric attributes and properties of
Geometry Cluster 3: Geometric	To Scaffold:	2-D shapes and 3-D solids
Relationships	• What Was Here?	- Compares 2-D shapes and 3-D solids to find the
12: Building with Solids	The Tailor Shop	similarities and differences.
		- Analyzes geometric attributes of 2-D shapes and 3-
Math Every Day Card	To Extend:	D solids (e.g., number of sides, corners).
2B: Solids Around Us	WONDERful Buildings	- Identifies 2-D shapes in 3-D objects in the
	_	environment.
	,	1
		- Classifies and names 2-D shapes based on common
	Geometry Cluster 2: 3-D Solids 7: 3-D Solids Around Us Geometry Cluster 3: Geometric Relationships 12: Building with Solids  Math Every Day Card	Geometry Cluster 1: 2-D Shapes  1: Sorting 2-D Shapes  2: Exploring 2-D Shapes  3: Constructing 2-D Shapes  5: 2-D Shapes Consolidation Geometry Cluster 3: Geometric Relationships  13: Visualizing Shapes and Solids  Math Every Day Cards  1: Visualizing Shapes Comparing Shapes 3B: Draw the Shape  Teacher Cards Geometry Cluster 2: 3-D Solids 7: 3-D Solids Around Us Geometry Cluster 3: Geometric Relationships  12: Building with Solids  • Sharing Our Stories  • What Was Here? • The Tailor Shop  To Extend: • WONDERful Buildings • Gallery Tour  • I Spy Awesome Buildings • Sharing Our Stories  To Scaffold: • What Was Here? • The Tailor Shop  To Scaffold: • What Was Here? • The Tailor Shop  To Extend:





### Mathology 2 Correlation (Statistics and Probability) – Newfoundland and Labrador

Specific Curriculum	Mathology Grade 2 Classroom	Mathology Little Books	Pearson Canada K-3 Mathematics Learning
Outcomes	Activity Kit		Progression
Statistics and Probability (Data Analysis)			
<b>2SP1</b> Gather and record data about self and others to answer questions.	Teacher Card Data Management and Probability Cluster 1: Data Management 3: Creating a Survey  Math Every Day Card 1: Conducting Surveys	<ul> <li>Big Buddy Days</li> <li>Marsh Watch</li> <li>To Scaffold:</li> <li>Graph It!</li> <li>To Extend:</li> <li>Welcome to The Nature Park</li> </ul>	Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness.  Formulating questions to learn about groups, collections, and events by collecting relevant data - Formulates questions that can be addressed through simple surveys.  Collecting data and organizing it into categories - Collects data from simple surveys concretely (e.g., shoes, popsicle sticks) or using simple records (e.g., check marks, tallies).
sp2 Construct and interpret concrete graphs and pictographs to solve problems.	Teacher Cards Data Management and Probability Cluster 1: Data Management 1: Interpreting Graphs 1 4: Making Graphs 1 6: Data Management Consolidation  Math Every Day Card 1: Reading and Interpreting Graphs*  *Use Master 21a (pictograph) as bar graphs and lines plots are not required by your curriculum.	<ul> <li>Big Buddy Days</li> <li>Marsh Watch</li> <li>To Scaffold:</li> <li>Graph It!</li> <li>To Extend:</li> <li>Welcome to The Nature Park</li> </ul>	Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness.  Creating graphical displays of collected data  - Creates displays using objects or simple pictographs (may use symbol for data).  - Displays data collected in more than one way and describes the differences (e.g., bar graph, pictograph).  Reading and interpreting data displays  - Interprets displays by noting how many more/less than other categories.  Drawing conclusions by making inferences and justifying decisions based on collected data  - Poses and answers questions about data collected and displayed.



Note: The following activities are not specifically correlated to the Newfoundland and Labrador curriculum outcomes for Grade 2 but may be of interest to teachers in preparing a strong foundation for mathematics:

<u>Number</u>

Activities 17 – 21: Early Fractional Thinking

Activity 35: Multi-Digit Fluency

Activities 37 – 42: Early Multiplicative Thinking

Activity 45: Spending Money

Activity 47: Financial Literacy Consolidation

Math Every Day Card 4A: Equal Parts from Home, Modelling Fraction

Amounts

Math Every Day Card 4B: Regrouping Equal Parts, Naming Equal Parts

Math Every Day Card 8A: Counting Equal Groups to Find How Many, I Spy Math Every Day Card 8B: How Many Blocks?, How Many Ways?

Patterning and Algebra

Activity 8: Decreasing Patterns
Activity 19: Missing Numbers

Math Every Day Card 3B: What's Missing?

Measurement

Activity 5: Measuring Area

Activity 6: Measuring Capacity

Activities 8 - 12: Using Standard Units

Math Every Day Card 2: What Am I?; Which Unit?

Activity 15: Measuring Time

Activity 16: Time to the Quarter-Hour

Activity 17: Changes in Temperature

Activity 18: Time and Temperature Consolidation

Math Every Day Card 3A: Hula Hoop Clock

Math Every Day Card 3B: Thermometer Drop or Pop

Geometry

Activity 4: Symmetry in 2-D Shapes

Activity 11: Making Shapes

Activity 14: Creating Pictures and Designs

**Activity 15: Covering Outlines** 

Activity 16: Creating Symmetrical Designs

Activity 17: Geometric Relationships: Consolidation Math Every Day 3A: Fill Me In!, Make Me a Picture

Activities 18 – 21: Location and Movement

Math Every Day Card 4A: Our Design, Treasure Map

Math Every Day Card 4B: Crazy Creatures, Perspective Matching Game

Activities 22 – 25: Coding

Math Every Day Card 5: Code of the Day, Wandering Animals

**Data Management and Probability** 

Activity 2: Interpreting Graphs 2

Activity 5: Making Graphs 2

Activities 7 – 9: Probability and Chance

Math Every Day Card 2: What's in the Bag?, Word of the Day

