

Mathology 3 Correlation (Number) – Ontario

Curriculum Expectations	Mathology Grade 3 Mathology.ca	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
Overall Expectation B1. Number Sense: demons Specific Expectation	trate an understanding of numbers and make o	connections to the way number	
Whole Numbers			
B1.1 read, represent, compose and decompose whole numbers up to and including 1000, using a variety of tools and strategies, and describe various ways they are used in everyday life	1: Number Unit 1: Counting 1: Numbers All Around Us Number Unit 2: Number Relationships 6: Composing and Decomposing Quantities 8: Number Relationships Consolidation Number Unit 3: Place Value 9: Building Numbers 10: Representing Numbers 11: What's the Number?	The Street Party Math Makes Me Laugh How Numbers Work Finding Buster Fantastic Journeys To Scaffold: What Would You Rather? Ways to Count Family Fun Day Back to Batoche A Class-full of Projects The Money Jar	Big idea: Numbers tell us how many and how much. Applying the principles of counting - Uses number patterns to bridge hundreds when counting forward and backward (e.g., 399, 400, 401). Recognizing and writing numerals - Names, writes, and matches three-digit numerals to quantities. Big Idea: Numbers are related in many ways. Comparing and ordering quantities (multitude or magnitude) - Orders three or more quantities using sets and/or numerals. 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). 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 three-digit numbers using ones, tens, and hundreds.



B1.2 compare and order	Number Unit 2: Number Relationships	The Street Party	Big Idea: Numbers are related in many ways
whole numbers up to and including 1000, in various contexts	7: Comparing and Ordering Quantities 8: Number Relationships Consolidation Number Unit 3: Place Value 9: Building Numbers 10: Representing Numbers 11: What's the Number?	Sports Camp Planting Seeds Math Makes Me Laugh Finding Buster Fantastic Journeys To Scaffold: What Would You Rather? Ways to Count Family Fun Day Back to Batoche The Money Jar	Comparing and ordering quantities (multitude or magnitude) Orders three or more quantities using sets and/or numerals. 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 three-digit numbers using one, tens, and hundreds.
B1.3 round whole	Number Unit 3: Place Value	Math Makes Me Laugh	Big Idea: Numbers are related in many ways.
numbers to the nearest ten or hundred, in various contexts	12: Rounding Numbers 13: Place Value Consolidation	Finding Buster Fantastic Journeys	Estimating quantities and numbers - Uses relevant benchmarks to compare and estimate quantities (e.g., more/less than 10).



Counting to 1000 Skip-Counting Forward and Backward Counting Consolidation mber Unit 7: Financial Literacy Estimating and Counting Money	Planting Seeds Sports Camp Math Makes Me Laugh How Numbers Work Finding Buster To Scaffold: Ways to Count Family Fun Day Array's Bakery The Money Jar What Would You Rather?	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. - Uses number patterns to bridge hundreds when counting forward and backward (e.g., 399, 400, 401). - Fluently skip-counts by factors of 100 (e.g., 20, 25, 50) and multiples of 100 from any given number. Recognizing and writing numerals - Names, writes, and matches three-digit numerals to quantities. Big Idea: Numbers are related in many ways Estimating quantities and numbers
Counting Consolidation mber Unit 7: Financial Literacy	Math Makes Me Laugh How Numbers Work Finding Buster To Scaffold: Ways to Count Family Fun Day Array's Bakery The Money Jar	 Fluently skip-counts by factors of 10 (e.g., 2, 5, 10) and multiples of 10 from any given number. Uses number patterns to bridge hundreds when counting forward and backward (e.g., 399, 400, 401). Fluently skip-counts by factors of 100 (e.g., 20, 25, 50) and multiples of 100 from any given number. Recognizing and writing numerals Names, writes, and matches three-digit numerals to quantities. Big Idea: Numbers are related in many ways
		J 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		- Uses relevant benchmarks (e.g., multiples of 10) to compare and estimate quantities. Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units. Unitizing quantities and comparing units to the whole - Recognizes number patterns in repeated units.
	•	Big Idea: Numbers are related in many ways.
Building Numbers	<u> </u>	Comparing and ordering quantities (multitude or
Representing Numbers What's the Number? Place Value Consolidation	Finding Buster	magnitude)Orders three or more quantities using sets and/or numerals.
		Big Idea: Quantities and numbers can be grouped
		by or partitioned into equal-sized units.
	_	Unitizing quantities into ones, tens, and hundreds
	The Money Jar What Would You Rather? The Great Dogsled Race	(place-value concepts)- Writes, reads, composes, and decomposes three-digit numbers using ones, tens, and hundreds.
3ı : [Representing Numbers What's the Number?	uilding Numbers Representing Numbers What's the Number? Place Value Consolidation To Scaffold: Back to Batoche A Class-full of Projects The Money Jar What Would You Rather?



B1.6 use drawings to represent, solve, and	Number Unit 4: Fractions 14: Exploring Equal Parts	Hockey Homework	Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units.
compare the results of fair-share problems that involve sharing up to 20 items among 2, 3, 4, 5, 6, 8, and 10 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts	15: Comparing Fractions 1 17: Partitioning Sets 1 New Lesson: Partitioning Sets with Leftovers		Partitioning quantities to form fractions - Partitions wholes into equal-sized parts to make fair shares or equal groups. - Partitions wholes (e.g., intervals, sets) into equal parts and names the unit fractions. - Relates the size of parts to the number of equal parts in a whole (e.g., a whole cut into 2 equal pieces has larger parts than a whole cut into 3 equal pieces). - Compares unit fractions to determine relative size. - Counts by unit fractions (e.g., counting by \frac{1}{4}: \frac{1}{4}, \frac{2}{4}, \frac{3}{4}\right). - Uses fraction symbols to name fractional quantities.
B1.7 represent and solve fair-share problems that focus on determining and using equivalent fractions, including problems that involve halves, fourths, and eighths; thirds and sixths; and fifths and tenths Note: see B2.8	Number Unit 4: Fractions 15: Comparing Fractions 1 16: Comparing Fractions 2 18: Fractions Consolidation	Hockey Homework	



Overall Expectation			de contrate
Specific Expectation	numbers and operations to solve mathematical	problems encountered in every	day contexts
Properties and Relationships			
B2.1 use the properties of operations, and the relationships between	Number Unit 6: Multiplication and Division 29: Relating Multiplication and Division	Calla's Jingle Dress Sports Camp Planting Seeds	Big Idea: Quantities and numbers can be grouped by, and partitioned into, units to determine how many or how much.
multiplication and division, to solve problems and check calculations	30: Properties of Multiplication 31: Creating and Solving Problems 32: Building Fluency: The Games Room		Developing conceptual meaning of multiplication and division - Models and symbolizes single-digit multiplication problems involving equal groups or measures (i.e., equal jumps on a number line), and relates them to addition. - Uses properties of multiplication and division to solve problems (e.g., multiplying and dividing by 1, commutativity of multiplication). - Models and symbolizes equal sharing and grouping division problems and relates them to subtraction.
Specific Expectation Math Facts			
B2.2 recall and demonstrate	Number Unit 6: Multiplication and	Calla's Jingle Dress	
multiplication facts of 2, 5, and	Division	Sports Camp	
10, and related division facts Specific Expectation	Lesson 27 Exploring Multiplication 28: Exploring Division 29: Relating Multiplication and Division New Lesson: Multiplication and Division with Larger Numbers 31: Creating and Solving Problem 32: Building Fluency: The Games Room 33: Multiplication and Division Consolidation	Planting Seeds	
Mental Math			
B2.3 use mental math strategies, including estimation, to add and subtract whole numbers that add up to no	Number Unit 5: Addition and Subtraction 20: Estimating Sums and Differences 22: Using Mental Math to Add and Subtract	Math Makes Me Laugh Calla's Jingle Dress The Street Party	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.



more than 1000 and explain the strategies used Specific Expectation			Sports Camp Planting Seeds	Developing conceptual meaning of addition and subtraction - Models and symbolizes addition and subtraction problem types (i.e., join, separate, part-part- whole, and compare). - Relates addition and subtraction as inverse operations. Developing fluency of addition and subtraction computation - Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. - Estimates sums and differences of multi-digit numbers. 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 (e.g., 8 + 5 = 3 + 5 + 5).
Addition and Subtraction				
B2.4 demonstrate an	Number Unit 5: Addition and		Jingle Dress	Big Idea: Quantities and numbers can be grouped
understanding of algorithms for	Subtraction		eet Party	by or partitioned into equal-sized units.
adding and subtracting whole numbers by making connections to and describing the way other tools and strategies are used to add and	19: Modelling Addition and Subtraction 24: Creating and Solving Problems 26: Creating and Solving	Math N How N	Camp g Seeds Jakes Me Laugh umbers Work g Buster	Unitizing quantities into ones, tens, and hundreds (place-value concepts) - Writes, reads, composes and decomposes three-digit numbers using ones, tens, and hundreds.
subtract	Problems with Larger Numbers Consolidation	To Scaf		Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.
		Marble A Class The M	es, Alleys, Mibs, and Guli! s-full of Projects oney Jar eat Dogsled Race	Developing conceptual meaning of addition and subtraction - Uses symbols and equations to represent addition and subtraction situations.



2.5 represent and solve	Number Unit 5: Addition and	Calla's Jingle Dress	 Models and symbolizes addition and subtraction problem types (i.e., join, separate, part-part-whole, and compare). Relates addition and subtraction as inverse operations. Uses properties of addition and subtraction to solve problems (e.g., adding or subtracting 0, commutativity of addition). Developing fluency of addition and subtraction computation Fluently adds and subtracts with quantities to 20. Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. Estimates sums and differences of multi-digit numbers. Big Idea: Quantities and numbers can be added
roblems involving the addition nd subtraction of whole umbers that add up to no nore than 1000, using various pols and algorithms	Subtraction 19: Modelling Addition and Subtraction 24: Creating and Solving Problems 25: Creating and Solving Problems with Larger Numbers 26: Creating and Solving Problems with Larger Numbers Consolidation Number Unit 7: Financial Literacy 36: Purchasing and Making Change	The Street Party Sports Camp Planting Seeds Math Makes Me Laugh How Numbers Work Finding Buster To Scaffold: Array's Bakery Marbles, Alleys, Mibs, and Guli! A Class-full of Projects The Money Jar The Great Dogsled Race	and subtracted to determine how many or how much. Developing conceptual meaning of addition and subtraction - Models and symbolizes addition and subtraction problem types (i.e., join, separate, part-part-whole, and compare). - Relates addition and subtraction as inverse operations. - Uses properties of addition and subtraction to solve problems (e.g., adding or subtracting 0, commutativity of addition). Developing fluency of addition and subtraction computation. - Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. - Estimates sums and differences of multi-digit numbers. - Fluently recalls complements to 100 (e.g., 64 +



B2.6 represent multiplication of numbers up to 10×10 and division up to $100 \div 10$, using a variety of tools and drawings, including arrays	Number Unit 6: Multiplication and Division 27: Exploring Multiplication 28: Exploring Division 29: Relating Multiplication and Division 30: Properties of Multiplication 31: Creating and Solving Problem New Lesson: Multiplication and Division with Larger Numbers 32: Building Fluency: The Games Room	Calla's Jingle Dress Sports Camp Planting Seeds	Big Idea: Quantities and numbers can be grouped by, or partitioned into units to determine how many or how much. Developing conceptual meaning of multiplication and division - Models and symbolizes single-digit multiplication problems involving equal groups or measures (i.e., equal jumps on a number line), and relates them to addition. - Uses properties of multiplication and division to solve problems (e.g., multiplying and dividing by 1, commutativity of multiplication). - Models and symbolizes equal sharing and grouping division problems and relates them to subtraction.
B2.7 represent and solve problems involving multiplication and division, including problems that involve groups of one half, one fourth, and one third, using tools and drawings	Number Unit 6: Multiplication and Division 31: Creating and Solving Problems 32: Building Fluency: The Games Room 33: Multiplication and Division Consolidation	Calla's Jingle Dress Sports Camp Planting Seeds	Big Idea: Quantities and numbers can be grouped by, or partitioned into units to determine how many or how much. Developing conceptual meaning of multiplication and division - Models and symbolizes single-digit multiplication problems involving equal groups or measures (i.e., equal jumps on a number line), and relates them to addition. - Uses properties of multiplication and division to solve problems (e.g., multiplying and dividing by 1, commutativity of multiplication). - Models and symbolizes equal sharing and grouping division problems and relates them to subtraction. Developing fluency for multiplication and division computation - Fluently multiplies and divides to 25.
B2.8 represent the connection between the numerator of a fraction and the repeated addition of the unit fraction with the same denominator using various tools and drawings, and standard fraction notation	Number Unit 4: Fractions New Lesson Partitioning Sets with Leftovers 18: Fractions Consolidation		



B2.9 use the ratios of 1 to	Number Unit 6: Multiplication and	
2, 1 to 5, and 1 to 10 to	Division	
scale up numbers and to	New Lesson: Investigating Ratios	
solve problems		



Mathology 3 Correlation (Algebra) – Ontario

Curriculum Expectations	Mathology Grade 3 Mathology.ca	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression			
Overall Expectation C1. Patterns and Relationships: identify, describe, extend, create, and make predictions about a variety of patterns, including those found in real-life contexts Specific Expectation Patterns						
C1.1 identify and describe repeating elements and operations in a variety of patterns, including patterns found in real-life contexts	Patterning and Algebra Unit 1: Increasing and Decreasing Patterns 1: Describing and Extending Patterns Patterning and Algebra Unit 3: Repeating Patterns 14: Identifying and Extending Patterns 16: Repeating Patterns Consolidation	Namir's Marvellous Masterpieces To Scaffold: The Best Surprise Pattern Quest	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Identifying, sorting, and classifying attributes and patterns mathematically (e.g., number of sides, shape, size) - Sorts and classifies objects with multiple attributes (e.g., big red 3-sided shape). - Sorts and classifies repeating patterns based on the repeating unit (core) (e.g., AAB, ABB). - Sorts a set of objects based on two attributes. Identifying, reproducing, extending, and creating patterns that repeat			



			 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).
			Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.
			Representing and generalizing increasing/decreasing patterns - Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap; etc.) Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction.
C1.2 create and translate patterns that have repeating	Patterning and Algebra Unit 1: Increasing and Decreasing Patterns	Namir's Marvellous Masterpieces	Big Idea: Regularity and repetition form patterns that can be generalized and predicted
elements, movements, or	2: Representing Patterns		mathematically.
operations using various	3: Creating Patterns	To Scaffold:	Identifying, sorting, and classifying attributes and
representations, including	6: Exploring Multiplicative Patterns	The Best Surprise	patterns mathematically (e.g., number of sides,
shapes, numbers, and tables of values	Patterning and Algebra Unit 3: Repeating Patterns 14: Identifying and Extending Patterns 15: Creating Patterns 16: Repeating Patterns Consolidation	Pattern Quest	 shape, size) Sorts and classifies objects with multiple attributes (e.g., big red 3-sided shape). Sorts and classifies repeating patterns based on the repeating unit (core) (e.g., AAB, ABB). Sorts a set of objects based on two attributes. Identifying, reproducing, extending, and creating patterns that repeat 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



C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns that have repeating elements, movements, or operations	Patterning and Algebra Unit 1: Increasing and Decreasing Patterns 1: Describing and Extending Patterns 2: Representing Patterns 4: Identifying Errors and Missing Terms Patterning and Algebra Unit 3: Repeating Patterns 14: Identifying and Extending Patterns 16: Repeating Patterns Consolidation	Namir's Marvellous Masterpieces To Scaffold: The Best Surprise Pattern Quest	patterns based on two or more attributes (e.g., shape and orientation). Representing and generalizing increasing/decreasing patterns - Identifies and extends familiar number patterns and makes connections to addition (e.g., skipcounting by 2s, 5s, 10s). - Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. - Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. - Generalizes and explains the rule for arithmetic patterns including the starting point and change (e.g., for 28, 32, 36, the rule is start at 28 and add 4 each time). - Extends and represents patterns involving simple multiplicative relationships (e.g., doubling: 1, 2, 4, 8, 16,; and tripling: 1, 3, 9, 27, 81,). Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Identifying, sorting, and classifying attributes and patterns mathematically (e.g., number of sides, shape, size) - Sorts and classifies objects with multiple attributes (e.g., big red 3-sided shape). - Sorts and classifies repeating patterns based on the repeating unit (core) (e.g., AAB, ABB). - Sorts a set of objects based on two attributes. Identifying, reproducing, extending, and creating patterns that repeat - 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
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			shape and orientation). Representing and generalizing increasing/decreasing patterns - Identifies and extends non-numeric increasing/ decreasing patterns (e.g., jump-clap; jump-clap- clap; jump-clap-clap clap, etc.). - Identifies and extends familiar number patterns and makes connections to addition (e.g., skip- counting by 2s, 5s, 10s). - Identifies, reproduces, and extends increasing/ decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. - Extends number patterns and finds missing elements (e.g., 1, 3, 5, _, 9,). - Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. - Generalizes and explains the rule for arithmetic patterns including the starting point and change (e.g., for 28, 32, 36, the rule is start at 28 and add 4 each time). - Extends and represents patterns involving simple multiplicative relationships (e.g., doubling: 1, 2, 4, 8, 16,; and tripling: 1, 3, 9, 27, 81,).
C1.4 create and describe patterns to illustrate relationships among whole	Patterning and Algebra Unit 1: Increasing and Decreasing Patterns 3: Creating Patterns	Namir's Marvellous Masterpieces	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.
numbers up to 1000	4: Identifying Errors and Missing Terms 6: Exploring Multiplicative Patterns 7: Increasing and Decreasing Patterns Consolidation New Lesson: Patterns in Whole Numbers	To Scaffold: The Best Surprise Pattern Quest	Representing and generalizing increasing/decreasing patterns - Identifies and extends familiar number patterns and makes connections to addition (e.g., skip- counting by 2s, 5s, 10s) Identifies, reproduces, and extends increasing/ decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule.



			 Generalizes and explains the rule for arithmetic patterns including the starting point and change (e.g., for 28, 32, 36, the rule is start at 28 and add 4 each time). Extends and represents patterns involving simple multiplicative relationships (e.g., doubling: 1, 2, 4, 8, 16,; and tripling: 1, 3, 9, 27, 81,).
Overall Expectation			
	demonstrate an understanding of variable	s, expressions, equalities, and	inequalities, and apply this understanding in various
contexts Specific Expectation			
Variables			
C2.1 describe how variables are used and use them in	Unit 2 Variables and Equations Lesson 9 Strategies for Solving	A Week of Challenges To Scaffold	BIG IDEA: patterns and relations can be represented
various contexts as appropriate	Equations	Kokum's Bannock	with symbols, equations, and expressions.
арргорпасе	Lesson 11 Creating Equations		Using symbols, unknowns and variables to
	Number Unit 5: Addition and		represent mathematical relations.
	Subtraction		Uses variables (I.e. letters or icons to describe
	24: Creating and Solving Problems		relations (e.g. 10=_+?)
	25: Creating and Solving Problems with		. 5 _ /
	Larger Numbers		
Specific Expectation			
Equalities and Inequalities C2.2 determine whether given	Unit 2 Variables and Equations	A Week of Challenges	BIG IDEA:
sets of addition, subtraction,	Lesson 9 Strategies for Solving	To Scaffold	212 12 21 11
multiplication, and division	Equations	Kokum's Bannock	patterns and relations can be represented
expressions are equivalent or		Kokam s Barmoek	with symbols, equations, and expressions.
not	Lesson 11 Creating Equations New Lesson: Equivalent Expressions		Understanding equality and inequality, building
	ivew Lesson. Equivalent Expressions		on generalized properties of numbers and operations.
			-Writes equivalent multiplication and division
			equations in different forms (e.g. $3 \times 4 - 12$; $12 = 4 \times 3$).
C2.3 identify and use	New Lesson: Equivalent	A Week of Challenges	BIG IDEA:
equivalent relationships for	Expressions	To Scaffold	patterns and relations can be represented
		Kokum's Bannock	with symbols, equations, and expressions.



whole numbers up to 1000, in various contexts Overall Expectation	12: Variables and Equations Consolidation		Understanding equality and inequality, building on generalized properties of numbers and operations. -Justifies equivalence/non-equivalence of expressions using rational thinking (e.g. 25 = 88 + 0 = 88 + 25).
•	nd create computational representations of i	mathematical situations	using coding concepts and skills
Specific Expectation Coding Skills			
C3.1 solve problems and	Geometry Unit 4: Mapping and Coding	To Scaffold Robo	Big Idea: Objects can be located in space and
create computational representations of mathematical situations by writing and executing code, including code that involves sequential, concurrent, and repeating events	15: Describing Location 16: Describing Movement on a Map 17: Coding on a Grid 18: Exploring Loops in Coding	RODO	viewed from multiple perspectives. Locating and mapping objects in space - Describes the movement of an object from one location to another on a grid map (e.g., moving 5 squares to the left and 3 squares down). - Describes the relative position of two locations on a map.
existing code, including code that involves sequential, concurrent,	Geometry Unit 4: Mapping and Coding 17: Coding on a Grid 18: Exploring Loops in Coding New Activity: Altering Code 19: Mapping and Coding Consolidation	To Scaffold Robo	Big Idea: Objects can be located in space and viewed from multiple perspectives. Locating and mapping objects in space - Describes the movement of an object from one location to another on a grid map (e.g., moving 5 squares to the left and 3 squares down).



Overall Expectation

C4. Mathematical Modelling

apply the process of mathematical modelling to represent, analyse, make predictions, and provide insight into real-life situations

Specific Expectation

Mathematical Modeling

This overall expectation has no specific expectations. Mathematical modelling is an iterative and interconnected process that is applied to various contexts, allowing students to bring in learning from other strands. Students' demonstration of the process of mathematical modelling, as they apply concepts and skills learned in other strands. is assessed and evaluated.

Number

- 6: Composing and Decomposing Quantities
- 8: Consolidation
- 9: Building Numbers
- 14: Exploring Equal Parts
- 20: Estimating Sums and Differences
- 21: Adding and Subtracting Money Amounts
- 24: Creating and Solving Problems
- 25: Creating and Solving Problems with Larger Numbers
- 28: Exploring Division
- 31: Creating and Solving Problems
- 36: Purchasing and Making Change
- 38: Financial Literacy Consolidation

Algebra

Lesson 2 Representing Patterns Lesson 3 Creating Patterns Lesson 15 Creating Patterns New Activity: Altering Code

Data

3 Drawing Graphs

5 Unit 1B Data Management

Consolidation

6: Making Predictions

Spatial-Geometry

7 Building Solids

Financial Literacy



36 Purchasing and Making Change 38: Financial Literacy Consolidation	





Mathology 3 Correlation (Data) – Ontario

Curriculum Expectations	Mathology Grade 3	Mathology Little	Pearson Canada K–3 Mathematics Learning
	Mathology 3.ca	Books	Progression
Overall Expectation D1. Data Literacy: manage, anal	lyse, and use data to make convincing argu	uments and informed deci	sions in various contexts drawn from real life
Specific Expectation Data Collection and Organizatio	n		
p1.1 sort sets of data about people or things according to two or three attributes, using tables and logic diagrams, including Venn, Carroll, and tree diagrams as appropriate.	Geometry Unit 1: 2-D Shapes 1: Sorting Polygons 2: What's the Sorting Rule? 5: Unit 1 2-D shapes Consolidation Geometry Unit 2: 3-D Solids 6: Exploring Geometric Attributes of Solids Data Management and Probability Unit 1B: Data Management New Lesson: Sorting People and Things 2: Collecting Data 5: Unit 1B: Data Management Consolidation	Welcome to the Nature Park To Scaffold: Big Buddy Days Marsh Watch	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 - Analyzes geometric attributes of 2-D shapes and 3-D solids (e.g., number of sides/edges, faces, corners). - Classifies and names 2-D shapes and 3-D solids based on common attributes. - Classifies and names 2-D shapes and 3-D solids using geometric properties (e.g., a rectangle has 4 right angles).



D1.2 collect data through observations, experiments, and interviews to answer questions of interest that focus on qualitative and	Data Management and Probability Unit 1B: Data Management 2: Collecting Data 5: Unit 1B: Data Management Consolidation	Welcome to the Nature Park To Scaffold: Big Buddy Days Marsh Watch	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.
quantitative data, and organize the data using frequency tables			Formulating questions to learn about groups, collections, and events by collecting relevant data - Formulates questions that can be addressed by counting collections (e.g., How many of us come to school by bus, by car, walking?) and questions that can be addressed through observation (e.g., How many people do/do not use the crosswalk?). Collecting data and organizing them into categories - Collects data by determining (most) categories in advance (e.g., yes/no; list of choices). - Orders categories by frequency (e.g., most to least). Reading and interpreting data displays - Reads and interprets information from data displays (e.g., orders by frequency, compares frequencies, determines total number of data points).
Specific Expectation Data Visualization			
D1.3 display sets of data, using many-to-one correspondence, in pictographs and bar graphs with proper sources, titles, and labels, and appropriate scales	Data Management and Probability Unit 1B: Data Management 3: Drawing Graphs 5: Unit 1B: Data Management Consolidation	Welcome to the Nature Park To Scaffold: Big Buddy Days Marsh Watch	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 simple many-to-one displays (e.g., pictograph where each symbol represents 5 data points) Creates displays in different formats and scales (e.g., horizontal/vertical, one-to-one/many-to-one, bar graph, line plot).



			Reading and interpreting data displays - Reads and interprets information from data displays (e.g., orders by frequency, compares frequencies, determines total number of data points). - Describes the shape of data in informal ways. - Critiques whether the display used is appropriate for the data collected.
Specific Expectation Data Analysis			
D1.4 determine the mean and identify the mode(s), if any, for various data sets involving whole numbers, and explain what each of these measures indicates about the data	Data Management and Probability Unit 1B: Data Management 4: Identifying the Mode 5: Unit 1B: Data Management Consolidation		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. Reading and interpreting data displays - Reads and interprets information from data displays (e.g., orders by frequency, compares frequencies, determines total number of data points). - Describes the shape of data in informal ways. - Critiques whether the display used is appropriate for the data collected. Drawing conclusions by making inferences and justifying decisions based on data collected - Makes simple inferences about a population based on sample data collected.
D1.5 analyze different sets of data presented in various ways, including in frequency tables and in graphs with different scales, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions	Data Management and Probability Unit 1B: Data Management 1: Interpreting Graphs 2: Collecting and Organizing Data 3: Drawing Graphs 4: Identifying the Mode 5: Unit 1B: Data Management Consolidation	Welcome to the Nature Park To Scaffold: Big Buddy Days Marsh Watch	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 by counting collections (e.g., How many of us come to school by bus, by car, walking?) and questions that can be addressed through observation (e.g., How many people do/do not use the crosswalk?). Collecting data and organizing them into categories - Collects data by determining (most) categories in advance (e.g., yes/no; list of choices). - Orders categories by frequency (e.g., most to least).



Creating graphical displays of collected data - Creates simple many-to-one displays (e.g., pictograph where each symbol represents 5 data points).
- Creates displays in different formats and scales (e.g., horizontal/vertical, one-to-one/many-to-one, bar graph, line plot).
Reading and interpreting data displays Reads and interprets information from data displays (e.g., orders by frequency, compares frequencies, determines total number of data points). Describes the shape of data in informal ways. Critiques whether the display used is appropriate for the data collected.
Drawing conclusions by making inferences and justifying decisions based on data collected - Makes simple inferences about a population based on sample data collected. - Judges the validity of statements made from displayed data.



Overall Expectation	Overall Expectation			
D2. Probability: describe the likel	hood that events will happen, and use	that information to r	nake predictions	
D2.1 use mathematical language, including the terms "impossible", "unlikely", "equally likely", "likely", and "certain", to describe the likelihood of events happening, and use that likelihood to make predictions and informed decisions	Data Management and Probability Unit 2: Probability and Chance Lesson 7: Describing the Likelihood of Outcomes Lesson 8: Unit 2: Probability and Chance Consolidation	Chance	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. Collecting data and organizing them into categories - Collects and compares data from multiple trials of the same experiment. Using the language of chance to describe and predict events - Describes the likelihood of an event (e.g., impossible, unlikely, certain). - Makes predictions based on the question, context, and data presented. - Lists the possible outcomes of independent events (e.g., tossing coin, rolling number cube, spinning a spinner). - Compares the likelihood of two events (e.g., more likely, less likely, equally likely). - Predicts the likelihood of an outcome in simple probability experiments or games.	
D2.2 make and test predictions about the likelihood that the mean and the mode(s) of a data set will be the same for data collected from different populations	Data Management and Probability Unit 2: Probability and Chance 4: Identifying the Mode 6: Making Predictions 8: Unit 2: Probability and Chance Consolidation		. 5	





Mathology 3 Correlation (Spatial Sense) – Ontario

Curriculum Expectations	Mathology Grade 3 Mathology.ca	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression		
·	Overall Expectation E1. Geometric and Spatial Reasoning: describe and represent shape, location, and movement by applying geometric properties and spatial relationships in order to navigate the world around them Specific Expectation				
E1.1 sort, construct, and identify cubes, prisms, pyramids, cylinders, and cones by comparing their faces, edges, vertices, and angles	Geometry Unit 2: 3-D Solids 6: Exploring Geometric Attributes of Solids 7: Building Solids Geometry Unit 5: Angles 20: Investigating Angles 21: Comparing Angles 22: Angles Consolidation	Wonderful Buildings Gallery Tour To Scaffold: I Spy Awesome Buildings Sharing Our Stories	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 - Analyzes geometric attributes of 2-D shapes and 3-D solids (e.g., number of sides/edges, faces, corners). - Classifies and names 2-D shapes and 3-D solids based on common attributes. - Constructs and compares 2-D shapes and 3-D solids with given attributes (e.g., number of vertices, faces). - Classifies and names 2-D shapes and 3-D solids using geometric properties (e.g., a rectangle has 4 right angles). Investigating 2-D shapes, 3-D solids, and their attributes through composition and decomposition - Constructs 3-D solids from nets.		



E1.2 compose and decompose various structures, and identify the two-dimensional	Geometry Unit 1 2-D Shapes 3: Composing Shapes	Wonderful Buildings Gallery Tour	Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.
shapes and three-dimensional objects that these structures contain	Geometry Unit 2: 3-D Solids 7: Building Solids 10: Unit 2 3-D Solids Consolidation	To Scaffold: I Spy Awesome Buildings Sharing Our Stories	 Investigating geometric attributes and properties of 2-D shapes and 3-D solids Analyzes geometric attributes of 2-D shapes and 3-D solids (e.g., number of sides/edges, faces, corners). Constructs and compares 2-D shapes and 3-D solids with given attributes (e.g., number of vertices, faces). Classifies and names 2-D shapes and 3-D solids using geometric properties (e.g., a rectangle has 4 right angles).
E1.3 identify congruent lengths, angles, and faces of three-dimensional objects by mentally and physically matching them, and determine if the objects are congruent	Geometry Unit 1 2-D Shapes 5: Unit 1 2-D shapes Consolidation Geometry Unit 2: 3-D Solids 6: Exploring Geometric Attributes 10: unit 2 3-D Solids Consolidation Geometry Unit 3: Symmetry and Transformations 12: Exploring Congruency	Wonderful Buildings Gallery Tour To Scaffold: I Spy Awesome Buildings Sharing Our Stories	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 - Classifies and names 2-D shapes and 3-D solids using geometric properties (e.g., a rectangle has 4 right angles). Big Idea: 2-D shapes and 3-D solids can be transformed in many ways and analyzed for change. Exploring 2-D shapes and 3-D solids by applying
	14: Symmetry and Transformations Consolidation Geometry Unit 5: Angles 21: Comparing Angles 22: Consolidation Angles		 and visualizing transformations Identifies congruent 2-D shapes and 3-D solids through physical movement (e.g., by rotating). Identifies congruent 2-D shapes and 3-D solids through visualizing transformations.



Specific Expectation			
E1.4 give and follow multi- step instructions involving movement from one location	Geometry Unit 3: Symmetry and Transformations 13: Exploring Transformations	To Scaffold: Robo	Big Idea: 2-D shapes and 3-D solids can be transformed in many ways and analyzed for change.
to another, including distances and half- and quarter-turns	Geometry Unit 4: Mapping and Coding 15: Describing Location 16: Describing Movement on a Map 17: Coding on a Grid		Exploring 2-D shapes and 3-D solids by applying and visualizing transformations - Identifies congruent 2-D shapes and 3-D solids through physical movement (e.g., by rotating). - Identifies congruent 2-D shapes and 3-D solids through visualizing transformations.
			Big Idea: Objects can be located in space and viewed from multiple perspectives.
			Locating and mapping objects in space - Describes the movement of an object from one location to another on a grid map (e.g., moving 5 squares to the left and 3 squares down). - Describes the relative position of two locations or a map.
Overall Expectation			
Specific Expectation Length, Mass, and Capacity	stimate, and determine measurements in	various contexts	
E2.1 use appropriate units of length to estimate, measure, and compare the perimeters	Measurement Unit 1: Length and Perimeter 3: Measuring Length	The Bunny Challenge Measurements About YOU!	Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared.
of polygons and curved shapes, and construct polygons with a given perimeter	4: Introducing Perimeter 5: Measuring Perimeter 6: How Many Can You Make?	To Scaffold: The Discovery	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) Extends understanding of length to other linear measurements (e.g., height, width, distance around).
			Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons.



F2.2 avalain the relationships	Massurement Unit 1: Length and	Goat Island	Selecting and using standard units to estimate, measure, and make comparisons - Demonstrates ways to estimate, measure, compare, and order objects by length, perimeter, area, capacity, and mass with standard units by: using an intermediary object of a known measure; using multiple copies of a unit; and iterating a single unit. - Selects and uses appropriate standard units to estimate, measure, and compare length, perimeter, area, capacity, mass, and time. - Uses the measurement of familiar objects as benchmarks to estimate another measure in standard units (e.g., doorknob is 1 m from the ground; room temperature is 21°C).
E2.2 explain the relationships between millimetres, centimetres, metres, and kilometres as metric units of length, and use benchmarks for these units to estimate lengths	Measurement Unit 1: Length and Perimeter 1: Estimating Length 2: Relating Centimetres and Metres 3: Measuring Length 4: Introducing Perimeter	Goat Island Measurements about YOU! To Scaffold: The Discovery	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). - Extends understanding of length to other linear measurements (e.g., height, width, distance around). Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons. Selecting and using standard units to estimate, measure, and make comparisons - Demonstrates ways to estimate, measure, compare, and order objects by length, perimeter, area, capacity, and mass with standard units by: using an intermediary object of a known measure; using multiple copies of a unit; and



			- Selects and uses appropriate standard units to estimate, measure, and compare length, perimeter, area, capacity, mass, and time. - Uses the measurement of familiar objects as benchmarks to estimate another measure in standard units (e.g., doorknob is 1 m from the ground; room temperature is 21°C). Understanding relationships among measurement units - Understands relationships of units of length (mm, cm, m), mass (g, kg), capacity (mL, L), and time (e.g., seconds, minutes, hours).
E2.3 use non-standard units appropriately to estimate, measure, and compare capacity, and explain the effect that overfilling or underfilling, and gaps between units, have on accuracy	Geometry Unit 3: Area, Mass, and Capacity New Lesson: Measuring Capacity with Non-Standard Units Lesson 17 Area Mass and Capacity Consolidation	Measurements about YOU!	
E2.4 compare, estimate, and measure the mass of various objects, using a pan balance and non-standard units	Geometry Unit 3: Area, Mass, and Capacity New Lesson: Measuring Mass Using Non-Standard Units Lesson 17 Area Mass and Capacity Consolidation	Measurements about YOU!	
E2.5 use various units of different sizes to measure the same attribute of a given item, and demonstrate that	Measurement Unit 1: Length and Perimeter 1: Estimating Length 2: Relating Centimetres and Metres	The Bunny Challenge To Scaffold The Discovery	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
even though using different- size units produces a different count, the size of the attribute remains the same	4: Introducing Perimeter 7: Length and Perimeter Consolidation Measurement Unit 3: Area, Mass, and Capacity 13: Measuring Area Using Non- Standard Units		- Uses language to describe attributes (e.g., long, tall, short, wide, heavy). - 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). - Extends understanding of length to other linear



New Lesson: Measuring Mass Using Non-Standard Units

New Lesson: Measuring Capacity with

Non-Standard Units

Lesson 17 Area Mass and Capacity

Consolidation

measurements (e.g., height, width, distance around).

Directly and indirectly comparing and ordering objects with the same measurable attribute

- Directly compares and orders objects by length (e.g., by aligning ends), mass (e.g., using a balance scale), and area (e.g., by covering).
- Compares objects indirectly by using an intermediary object.

Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons.

Selecting and using non-standard units to estimate, measure, and make comparisons

- Uses whole number measures to estimate, measure, and compare (e.g., this book is 8 cubes long and my pencil is 5 cubes long).
- 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; and iterating a single unit.
- Selects and uses appropriate non-standard units to estimate, measure, and compare length, area, capacity, mass, and time.
- Uses non-standard units as referents to estimate length (e.g., paper clips), area (e.g., square tiles), mass (e.g., cubes), and capacity (e.g., cups).

Selecting and using standard units to estimate, measure, and make comparisons

- Demonstrates ways to estimate, measure, compare, and order objects by length, perimeter, area, capacity, and mass with standard units by: using an intermediary object of a known measure; using multiple copies of a unit; and iterating a single unit.
- Selects and uses appropriate standard units to estimate, measure, and compare length, perimeter, area, capacity, mass, and time.



Specific Expectation Time			 Uses the measurement of familiar objects as benchmarks to estimate another measure in standard units (e.g., doorknob is 1 m from the ground; room temperature is 21°C). Understanding relationships among measurement units Compares different sized units and the effects on measuring objects (e.g., small cubes vs. large cubes to measure length). Understands the inverse relationship between the size of the unit and the number of units (length, area, capacity, mass). Understands that decomposing and rearranging does not change the measure of an object. Understands relationships of units of length (mm, cm, m), mass (g, kg), capacity (mL, L), and time (e.g., seconds, minutes, hours).
E2.6 use analog and digital clocks and timers to tell time in hours, minutes, and	Measurement Unit 2: Time and Temperature 10: Telling Time	Goat Island Measurements About YOU!	Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared.
seconds	12: Time and Temperature Consolidation	To Scaffold: Getting Ready for School The Discovery	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) Uses language to describe attributes (e.g., long, tall, short, wide, heavy).
			Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons.
			Understanding relationships among measurement units - Understands relationships of units of length (mm, cm, m), mass (g, kg), capacity (mL, L), and time (e.g., seconds, minutes, hours).



Specific Expectation Area			
E2.7 compare the areas of two-dimensional shapes by matching, covering, or	Measurement Unit 3: Area, Mass, and Capacity 14: Measuring Area with Standard	The Bunny Challenge Measurements About YOU!	Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared.
decomposing and recomposing the shapes, and demonstrate that different shapes can have the same area	Units		Understanding attributes that can be measured - Uses language to describe attributes (e.g., long, wide, heavy). Directly and indirectly comparing and ordering objects with the same measurable attribute - Directly compares and orders objects by length (e.g., aligning ends), mass (e.g., using a balance scale), and area (e.g., by covering). - Compares objects indirectly by using an intermediary object. Big Idea: Assigning a unit to a continuous
			attribute allows us to measure and make comparisons.
	Management Hait 2: Area Mana	The Dunay Challes as	Selecting and using non-standard units to estimate, measure, and make comparisons - Uses whole number measures to estimate, measure, and compare (e.g., this book is 8 cubes long and my pencil is 5 cubes long). - 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; and iterating a single unit. - Selects and uses appropriate non-standard units to estimate, measure, and compare length, area, capacity, and mass. - Uses non-standard units as referents to estimate length (e.g., paper clips), area (e.g., square tiles), mass (e.g., cubes), and capacity (e.g., cups).
E2.8 use appropriate nonstandard units to measure area,		The Bunny Challenge Measurements About YOU!	Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be
and explain the effect that gaps and overlaps have on accuracy	13: Measuring Area Using Non- Standard Units	To Scaffold	measured and compared. Understanding attributes that can be measured
,	14: Measuring Area with Standard Units	The Discovery	- Uses language to describe attributes (e.g., long, wide, heavy).



	17: Area Mass and Capacity Consolidation		Directly and indirectly comparing and ordering objects with the same measurable attribute - Directly compares and orders objects by length (e.g., aligning ends), mass (e.g., using a balance scale), and area (e.g., by covering). - Compares objects indirectly by using an intermediary object.
			Big Idea: Assigning a unit to a continuous attribute
			allows us to measure and make comparisons.
			Selecting and using non-standard units to estimate, measure, and make comparisons - Uses whole number measures to estimate, measure, and compare (e.g., this book is 8 cubes long and my pencil is 5 cubes long). - 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. - Uses non-standard units as referents to estimate length (e.g., paper clips), area (e.g., square tiles), mass (e.g., cubes), and capacity (e.g., cups).
E2.9 use square centimetres	Measurement Unit 3: Area, Mass,	The Bunny Challenge	Big Idea: Assigning a unit to a continuous
(cm ²) and square metres (m ²) to estimate, measure, and	and Capacity 14: Measuring Area with Standard	Measurements About YOU!	attribute allows us to measure and make comparisons.
compare the areas of various	Units		Selecting and using standard units to estimate,
two-dimensional shapes,			measure, and make comparisons
including those with curved			- Uses standard sized objects to measure (e.g., 10
sides			centicube rod).
			- Demonstrates ways to estimate, measure,
			compare, and order objects by length, perimeter,
			area, capacity, and mass with standard units by: using an intermediary object of a known measure;
			using multiple copies of a unit; and iterating a
			single unit.
			- Selects and uses appropriate standard units to
			estimate, measure, and compare length,
			perimeter, area, capacity, mass, and time.



- Uses the measurement of familiar objects as benchmarks to estimate another measure in standard units (e.g., doorknob is 1 m from the ground; room temperature is 21°C).
Understanding relationships among measurement units - Compares different sized units and the effects on measuring objects (e.g., small cubes vs. large cubes to measure length). - Understands the inverse relationship between the size of the unit and the number of units (length, area, capacity, and mass).



Mathology 3 Correlation (Financial Literacy) – Ontario

Curriculum Expectations	Mathology Grade 3 Mathology.ca	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
Overall Expectation F1. Money and Finance: demon	strate an understanding of the value and o	use of Canadian currency	
Specific Expectation Money Concepts			
F1.1 estimate and calculate the change required for various simple cash transactions involving wholedollar amounts and amounts less than one dollar	Number Unit 7: Financial Literacy 21: Adding and Subtracting Money amounts Lesson 34 Estimating and Counting Money 36: Purchasing and Making Change 38: Financial Literacy Consolidation	The Street Party Calla's Jingle Dress To Scaffold: The Money Jar	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing conceptual meaning of addition and subtraction - Models and symbolizes addition and subtraction problem types (i.e., join, separate, part-part-whole, and compare). Developing fluency of addition and subtraction computation



	- Develops efficient mental strategies and algorithms to solve equations with multi-digit
	numbers.
	- Fluently recalls complements to 100 (e.g., 64 +
	36; 73 + 27).

