Mathletics Newfoundland and Labrador Curriculum

Skill Quests



Grades 1-2

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Grade 1

1 Number

1.1 Develop number sense

Outcome	Quests	Content
1. Say the number sequence 0 to	Number sequences to	Counting by 1s to 100
100 by: 1s forward between any	100	Skip counting by 2s to 20
two given numbers; 1s backward		Skip counting by 5s to 100
from 20 to 0; 2s forward from 0 to		Skip counting by 10s to 100
20; 5s and 10s forward from 0 to		Skip counting by 2s, 5s & 10s
100.		
3. Demonstrate an understanding	Counting strategies	Counting collections to 20
of counting by: indicating that the		Counting collections to 50
last number said identifies "how		Counting collections to 100
many"; showing that any set has		Counting objects in groups of
only one count; using the counting		2, 5 & 10
on strategy; using parts or equal		
groups to count sets.		
4. Represent and describe numbers	Represent & describe	Number names to 20
to 20, concretely, pictorially and	numbers to 20	Sequencing numbers to 20
symbolically		Partitioning numbers to 20
5. Compare sets containing up to	Compare & order sets	Comparing & ordering sets up
20 elements, using: referents and	up to 20	to 20
one-to-one correspondence to		Exploring change in quantity
solve problems.		up to 20
7. Identify the number, up to 20,	Numbers more than &	Numbers more than & less
that is one more, two more, one less	less than	than
and two less than a given number.	A 1 1::: 0 1 : ::	A 11: 1 20
8. Demonstrate an understanding	Addition & subtraction	Adding to 20
of addition of numbers with answers to 20 and their	to 20	Adding to 20 by bridging to 10
		Subtracting within 20
corresponding subtraction facts, concretely, pictorially and		Subtracting within 20 by
symbolically, by: using familiar and		bridging to 10
mathematical language to describe		Adding & subtracting using a
additive and subtractive actions		bar model
from their personal experience;		Creating addition &
creating and solving problems in		subtraction word problems
context that involve addition and		Finding fact families for
subtraction; modelling addition and		addition & subtraction
subtraction, using a variety of		Adding & subtracting within 20
concrete and visual		20
representations, and recording the		
process symbolically.		

9. Describe and use mental	Addition & subtraction	Making a 10
mathematics strategies for	strategies	Adding & subtracting to 18
basic addition facts and related		Adding & subtracting using
subtraction facts to 18.		doubles
		Introducing commutative
		property of addition

2 Patterns and Relations (Patterns)

2.1 Use patterns to describe the world and to solve problems

Outcome	Quests	Content
1. Demonstrate an understanding	Repeating patterns	Recognizing repeating
of repeating patterns (two to four		patterns
elements) by: describing,		Reproducing repeating
reproducing, extending and		patterns
creating patterns using		Manipulating repeating
manipulatives, diagrams, sounds		patterns
and actions.		Extending repeating patterns
		Replicating a repeating
		pattern
		Describing & creating
		repeating patterns
2. Translate repeating patterns	Translate repeating	Translating repeating patterns
from one representation to another.	patterns	

3 Patterns and Relations (Variables and Equations)

3.1 Represent algebraic expressions in multiple ways

Outcome	Quests	Content
3. Describe equality as a balance and inequality as an imbalance, concretely and pictorially (0 to 20).	Equality & inequality	Exploring equality & inequality
4. Record equalities using the equal symbol (0 to 20).	Record equalities	Recording equalities Solving addition & subtraction equality problems

4 Shape and Space (Measurement)

4.1 Use direct or indirect measurement to solve problems

Outcome	Quests	Content
1. Demonstrate an understanding	Measurement	Exploring length
of measurement as a process of		Exploring volume
comparing by: identifying attributes		Exploring mass
that can be compared; ordering		Exploring area
objects; making statements of		
comparison; filling, covering or		
matching.		

5 Shape and Space (3-D objects and 2-D shapes)

5.1 Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them

Outcome	Quests	Content
2. Sort 3-D objects and 2-D shapes,	Sort 2-D shapes & 3-D	Sorting 2-D shapes
using one attribute, and explain the	objects	Sorting 3-D objects
sorting rule.		
3. Replicate composite 2-D shapes	Replicate composite	Replicating composite 2-D
and 3-D objects.	2-D shapes	shapes
	Replicate composite	Replicating composite 3-D
	3-D objects	objects
4. Compare 2-D shapes to parts of	Compare 2-D shapes	Comparing 2-D shapes to
3-D objects in the environment.	to 3-D objects	parts of 3-D objects

Grade 2

1 Number

1.1 Develop number sense

Outcome	Quests	Content
1. Say the number sequence from 0 to 100 by: 2s, 5s and 10s, forward and backward, using starting	Number sequences	Counting by 2s to 100 Counting by 2s to 100 from any number
points that are multiples of 2, 5 and 10 respectively; 10s, using starting		Counting by 5s to 100 Counting by 10s to 100
points from 1 to 9; 2s, starting from 1.		Counting by 10s to 100 from any number
		Counting in 2s, 5s or 10s Counting a sum of money to 100¢
2. Demonstrate if a number (up to 100) is even or odd.	Even & odd numbers	Even & odd numbers
3. Describe order or relative position, using ordinal numbers (up to tenth).	Ordinal numbers	Introducing ordinal numbers
4. Represent and describe numbers	Numbers to 100	Number names to 100
to 100, concretely, pictorially and		Counting to 100
symbolically.		Numbers to 100 using a tally
		Using coins to represent numbers to 100
5. Compare and order numbers up to 100.	Compare & order numbers to 100	Comparing & ordering numbers to 100
		Identifying numbers before and after up to 100
7. Illustrate, concretely and pictorially, the meaning of place	Place value partitioning up to 100	Place value partitioning of numbers to 50
value for numbers to 100.		Non-standard partitioning of numbers to 100
	Solve 2-digit place value problems	Solving place value problems with 2-digit numbers
8. Demonstrate and explain the effect of adding zero to, or subtracting zero from, any number.	Add & subtract a zero	Adding & subtracting a zero
9. Demonstrate an understanding	Addition to 100	Adding 2-digit & 1-digit
of addition (limited to one- and		numbers using place value
two-digit numerals) with answers		Adding by bridging to 10 with
to 100 and the corresponding		2 & 1-digit numbers

subtraction by: using personal		Adding tens to a 2-digit
strategies for adding and		number using models
subtracting with and without the		Adding two 2-digit numbers
support of manipulatives; creating		using place value
and solving problems that involve		Adding two 2-digit numbers
addition and subtraction; explaining		using a number line
that the order in which numbers are		Adding by compensating
added does not affect the sum		Adding using compatible
(commutative property); explaining		numbers
that the order in which numbers are		Using number bonds to 100
subtracted may affect the	Subtraction within 100	Subtracting by bridging to 10
difference.	Subtraction Within 100	Subtracting 2 & 1-digit
		numbers using place value
		Subtracting using mixed
		strategies
		Subtracting tens from a 2-digit
		number
		Subtracting two 2-digit
		numbers using place value
		Subtracting two 2-digit
		numbers, number line
		Subtracting by compensating
	Addition & subtraction	Adding up to find the
	within 100	difference
		Add/subtract place value
		patterns
		Add/subtract using mixed
		strategies
		Add/subtract two 2-digit
		numbers using place value
		Solving addition & subtraction
		word problems
		Number sentences to solve
		word problems
		Estimating sums & differences
		Judging the reasonableness of
		answers
10. Apply mental mathematics	Addition & subtraction	Addition & subtraction to 18
strategies for the basic addition	to 18	Adding using doubles
and related subtraction facts to 18.		Subtracting using doubles
		Adding doubles or near
		doubles
		Finding fact families for
		addition & subtraction
		Using the commutative
		property of addition
		Counting on by bridging to 10
		Addition & subtraction facts -
		word problems

2 Patterns and Relations (Patterns)

2.1 Use patterns to describe the world and to solve problems

Outcome	Quests	Content
1. Demonstrate an understanding	Explore repeating	Creating & extending
of repeating patterns (three to five	patterns	repeating patterns
elements) by: describing, extending,		Identifying repeating patterns
comparing and creating		Numeric patterns
patterns using manipulatives,		
diagrams, sounds and actions.		
2. Demonstrate an understanding	Explore increasing	Exploring addition &
of increasing patterns by:	number patterns	subtraction patterns to 100
describing, reproducing, extending		Exploring patterns to 100
and creating		using multiples
patterns using manipulatives,		Connecting objects & symbols
diagrams, sounds and actions		to number patterns
(numbers to 100).		Exploring growing number
		patterns up to 100
		Exploring visual patterns

3 Patterns and Relations (Variables and Equations)

3.1 Represent algebraic expressions in multiple ways

Outcome	Quests	Content
3. Demonstrate and explain the	Equality & inequality	Introducing equality &
meaning of equality and inequality		inequality
by using manipulatives and		
diagrams (0-100).		
4. Record equalities and inequalities	Use the equal & not-	Using the equal & not-equal
symbolically, using the equal	equal symbols	symbols
symbol or the not equal symbol.		

4 Shape and Space (Measurement)

4.1 Use direct and indirect measurement to solve problems

Outcome	Quests	Content
1.Relate the number of days to a	Explore the passing of	Calendars
week and the number of months to	time	Days of the week & months of
a year in a problem-solving context.		the year
2. Relate the size of a unit of	Non-standard	Non-standard measurement
measure to the number of units	measurement	of length
(limited to non-standard units) used		Non-standard measurement
to measure length and mass.		of mass
3. Compare and order objects by	Compare & order	Comparing & ordering objects
length, height, distance around and	objects	by length
mass, using non-standard units,		Comparing & ordering objects
and make statements of		by mass
comparison.		
4. Measure length to the nearest	Measure length using	Measuring length using non-
nonstandard unit by: using multiple	non-standard units	standard units
copies of a unit; using a single copy		
of a unit (iteration process).		

5 Shape and Space (3-D Objects and 2-D Shapes)

5.1 Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them

Outcome	Quests	Content
6. Sort 2-D shapes and 3-D objects,	Sort 2-D shapes & 3-D	Sorting 2-D shapes
using two attributes, and explain	objects	Sorting 3-D objects
the sorting rule.		
7. Describe, compare and construct	Introduce 3-D objects	Introducing spheres
3-D objects, including: cubes,		Introducing cones
spheres, cones, cylinders, pyramids		Introducing cubes
and prisms.		Introducing cylinders
		Introducing pyramids
		Introducing prisms
		Identifying 3-D objects
		Identifying attributes of 3-D
		objects
		Comparing 3-D objects
8. Describe, compare and construct	Identify and compare	Naming 2-D shapes
2-D shapes, including: triangles,	2-D shapes	Comparing 2-D shapes
squares, rectangles and circles.		
9. Identify 2-D shapes as parts of	Identify 2-D shapes in	Identifying 2-D shapes in the
3-D objects in the environment.	the environment	environment

6 Statistics and Probability (Data Analysis)

6.1 Collect, display, and analyze data to solve problems

Outcome	Quests	Content
Gather and record data about self and others to answer	Gather & record data	Gathering & recording data
questions.		
2. Construct and interpret concrete	Interpret data	Using pictographs
graphs and pictographs to solve		Using basic graphs
problems.		Using a tally
		Making a graph
		Answering questions about a
		graph



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