Mathletics Saskatchewan Program of Studies

Skill Quests



Grades 1 – 2



May, 2022

Mathletics

Saskatchewan Program of Studies Skill Quests May 2022

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Grade 1

1 Number

Outcome	Quests	Content
1. Say the number sequence, 0 to	Number sequences to	Counting by 1s to 100
100, by: 1s forward and backward	100	Skip counting by 2s to 30
between any two given numbers,		Skip counting by 5s to 100
2s to 20, forward starting at 0, 5s		Skip counting by 10s to 100
and 10s to 100, forward starting at 0.		Skip counting by 2s, 5s & 10s
3. Demonstrate an understanding	Counting strategies	Counting collections to 20
of counting by: indicating that the		
last number sala identifies "now		
many", showing that any set has		
on strategy using parts or equal		
aroups to count sets.		
4. Represent and describe whole	Represent & describe	Number names to 20
numbers to 20 concretely,	numbers to 20	Sequencing numbers to 20
pictorially, and symbolically.		Partitioning numbers to 20
5. Compare sets containing up to	Compare & order sets	Comparing & ordering sets up
20 elements to solve problems	up to 20	to 20
using referents (known quantity)		Exploring change in quantity
and one-to-one correspondence.		up to 20
7. Demonstrate, concretely,	Represent numbers to	Representing numbers to 30 in
physically, and pictorially, how	30	equal groups
whole numbers can be represented		
by a variety of equal groupings with		
8 Identify the number up to 20	Numbers more than &	Identifying numbers more than
that is one more two more one	less than	& less than
less and two less than a given		
number.		
9. Demonstrate an understanding	Addition & subtraction	Adding to 20
of addition of numbers with	to 20	Adding to 20 by bridging to 10
answers to 20 and the		Subtracting within 20
corresponding subtraction facts,		Subtracting within 20 by
concretely, pictorially, physically,		bridging to 10
and symbolically by: using familiar		Adding & subtracting using a
and mathematical language to		bar model
aescribe additive and subtractive		Creating add/subtract word
actions from their experience,		problems
context that involve addition and		Finding fact families for
subtraction modelling addition and		addition & subtraction
subtraction using a variety of		Adding & subtracting within
subtraction using a variety of		20 fluently

concrete and visual		
representations, and recording the		
process symbolically.		
10. Describe and use mental	Addition & subtraction	Making a 10
mathematics strategies	strategies	Addition & subtraction to 18
(memorization not intended), such		Adding & subtracting using
as: counting on and counting back,		doubles
making 10, doubles, using addition		Introducing commutative
to subtract to determine basic		property of addition
addition facts to 18 and related		
subtraction facts.		

2 Patterns and Relations

Outcome	Quests	Content
1. Demonstrate an understanding	Repeating patterns	Recognizing repeating
elements) by: describing,		Reproducing repeating
reproducing, extending, creating		patterns
patterns using manipulatives,		Manipulating repeating
diagrams, sounds, and actions.		patterns
		Extending repeating patterns
		Describing & creating
		repeating patterns
2. Translate repeating patterns	Translate repeating	Translating repeating patterns
from one form of representation to	patterns	
another.		
3. Describe equality as a balance	Equality & inequality	Exploring equality & inequality
and inequality as an imbalance,		
concretely, physically, and		
pictorially (0 to 20).		
4. Record equalities using the equal	Record equalities	Recording equalities
symbol.		Solving addition & subtraction
		equality problems

3 Shape and Space

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.		
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 2-	Replicating composite 2-D
and 3-D objects.	D shapes	shapes
	Replicate composite 3-	Replicating composite 3-D
	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	parts of 3-D objects
	3-D objects	

Grade 2

1 Number

Outcome	Quests	Content
1. Demonstrate understanding of whole numbers to 100 (concretely,	Number sequences	Counting by 2s to 100
		Counting by 5s to 100
pictorially, physically, orally, in		Counting by 10s to 100
writing, and symbolically) by:		Counting by 10s to 100 from
representing (including place value),		any number
describing, skip counting,		Counting in 2s, 5s or 10s
differentiating between odd and	Even & odd numbers	Even & odd numbers
even numbers, estimating with	Ordinal numbers	Introducing ordinal numbers
referents, comparing two numbers,	Numbers to 100	Number names to 100
ordering three or more numbers.		Counting collections to 50
		Numbers to 100
		Representing numbers to 100 using a tally
		Counting in tens & ones
	Count a sum of money	Counting a sum of money to
	to 100¢	100¢
	Compare & order	Comparing & ordering
	numbers to 100	numbers to 100
	Place value of numbers	Place value of numbers to 50
	to 100	Standard partitioning of
		numbers to 100
		Non-standard partitioning of
		numbers to 100
	Place value problems:	Solving place value problems
	2-digit numbers	with 2-digit numbers
2. Demonstrate understanding of	Add & subtract a zero	Adding & subtracting a zero
addition (limited to 1 and 2-digit	Addition & subtraction	Adding & subtracting to 18
numerals) with answers to 100 and	to 18	Adding doubles & near
the corresponding subtraction by:		doubles
representing strategies for adding		Solving number problems
nictorially, and symbolically		using near doubles
creating and solving problems		Using the commutative
involving addition and subtraction		property of ddaltion
estimating, using personal strategies for adding and subtracting with and without the support of manipulatives, analyzing the effect of adding or subtracting		Counting on by bridging to 10
		Addition & subtraction facts -
	Addition within 100	Adding 2 digit & 1 digit
	Addition within 100	numbers using place value
		Adding by bridging to 10 with
zero, analyzing the effect of the		2- & 1-digit numbers
ordering of the quantities (addends,		Adding tens to a 2-digit
minuends, and subtrahends) in		number using models

addition and subtraction		Adding two 2-digit numbers
statements.		using place value
		Adding two 2-digit numbers
		using a number line
		Adding by compensating
		Adding compatible pairs
		Using number bonds to 100
	Subtraction within 100	Subtracting by bridging to 10
		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

2 Patterns and Relations

Outcome	Quests	Content
1. Demonstrate understanding of repeating patterns (three to five elements) by: describing, representing patterns in alternate modes, extending, comparing, creating patterns using manipulatives, pictures, sounds, and actions.	Explore repeating patterns	Creating & extending repeating patterns Identifying repeating patterns Numeric patterns
2. Demonstrate understanding of increasing patterns by: describing, reproducing, extending, creating patterns using manipulatives, pictures, sounds, and actions (numbers to 100).	Explore increasing number patterns	Exploring addition patterns to 100 Exploring patterns to 100 using multiples Connecting objects & symbols to number patterns Exploring growing number patterns up to 100 Exploring visual patterns
3. Demonstrate understanding of equality and inequality concretely	Equality & inequality	Introducing equality & inequality
and pictorially (0 to 100) by: relating equality and inequality to balance, comparing sets, recording equalities with an equal sign, recording inequalities with a not equal sign, solving problems involving equality and inequality.	Using the equal & not- equal symbol	Using the equal & not-equal symbol

3 Shape and Space

Outcome	Quests	Content
1. Demonstrate understanding of	Non-standard	Exploring non-standard
non-standard units for linear	measurement: length	measurement of length
measurement by: describing the choice and appropriate use of non-		Comparing & ordering objects
standard units, estimating,		Measuring length using non-
measuring, comparing and		standard units
analyzing measurements.		
2. Demonstrate understanding of	Non-standard	Non-standard measurement
non-standard units for	measurement: mass	of mass
measurement of mass by:		Comparing & ordering objects
describing the choice and		by mass
upits estimating measuring		
comparing and analyzing		
measurements.		
3. Describe, compare, and construct	3-D objects	Introducing spheres
3-D objects, including: cubes,		Introducing cones
spheres, cones, cylinders, pyramids.		Introducing cubes
		Introducing cylinders
		Introducing pyramids
		Introducing prisms
		Identifying 3-D objects
		Comparing 3-D objects
4. Describe, compare, and construct	2-D shapes	Naming 2-D shapes
2-D shapes, including: triangles,		Comparing 2-D shapes
squares, rectangles, circles.		
5. Demonstrate understanding of	Sort 2-D shapes & 3-D	Sorting 2-D shapes
the relationship between 2-D	objects	Sorting 3-D objects
shapes and	Identify 2-D shapes in	Identifying 2-D shapes in the
3-D objects.	the environment	environment

4 Statistics and Probability

	Quests	Content
Outcome		
1. Demonstrate understanding of concrete graphs and pictographs.	Gather & record data	Gathering, sorting & recording data
	Interpret data	Using pictographs
		Using basic graphs
		Using a tally
		Making a graph
		Answering questions about a
		graph



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