

Mathletics

Saskatchewan Curriculum

Activities (Courses) and Skill Quests



Grades K-2

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Kindergarten

1 Number

1.1 Counting

NK.1 Say the whole number sequence by 1s starting anywhere from 0 to 10 and from 10 to 0.	
Course Topics	Activities
Number	How Many?
	Count to 5
	Order Numbers to 10

1.2 Subitizing

NK.2 Recognize, at a glance, and name familiar arrangements of 1 to 5 objects, dots, or pictures.	
Course Topics	Activities
Number	How Many?
	Count to 5
	How many dots?

NK.3 Relate a numeral, 0 to 10, to its respective quantity.	
Course Topics	Activities
Number	Ordinal Numbers
	Matching Numbers to 10

1.3 Represent

NK.4 Represent the partitioning of whole numbers (1 to 10) concretely and pictorially.	
Course Topics	Activities
Number	Balance Numbers to 10

NK.5 Compare quantities, 0 to 10, using one-to-one correspondence.	
Course Topics	Activities
Number	More or Less?
	More, Less or the Same to 10

2 Patterns and Relations

2.1 Patterns and Relations

PK.1 Demonstrate an understanding of repeating pattern (two or three elements) by: identifying, reproducing, extending, creating patterns using manipulatives, sounds, and actions.	
Course Topics	Activities
Patterns	Simple Patterns
	Missing it!
	Colour Patterns
	Complete the Pattern

3 Shape and Space

3.1 Shape and Space

SSK.1 Use direct comparison to compare two objects based on a single attribute, such as length including height, mass, volume, capacity.	
Course Topics	Activities
Shape and Space	Balancing Act
	Everyday Length
	Compare Length
	Which Holds More?

SSK.2 Sort 3-D objects using a single attribute.	
Course Topics	Activities
Shape and Space	Collect the Shapes
	Match the Object
	Same and Different
	Sort It

SSK.3 Build and describe 3-D objects.	
Course Topics	Activities
Shape and Space	Collect the Shapes
	Match the Solid 1

Grade 1

1 Number

1.1 Counting

N1.1	
Say the number sequence, 0 to 100, by: 1s forward and backward between any two given numbers, 2s to 20, forward starting at 0, 5s and 10s to 100, forward starting at 0.	
Course Topics	Activities
Number-Counting and Ordering	Counting Forward
Topics	Skill Quests
Number sequences to 100	Counting by 1s to 100
	Skip counting by 2s to 30
	Skip counting by 5s to 100
	Skip counting by 10s to 100
	Skip counting by 2s, 5s & 10s

N1.3	
Demonstrate an understanding of counting by: indicating that the last number said identifies how many, showing that any set has only one count using the counting on strategy, using parts or equal groups to count sets.	
Course Topics	Activities
Number-Counting and Ordering	1 to 30
	Make Numbers Count
	Order Numbers to 20
Topics	Skill Quests
Counting strategies	Counting collections to 20

1.2 Subitizing

N1.2	
Recognize, at a glance, and name familiar arrangements of 1 to 10 objects, dots, and pictures.	
Course Topics	Activities
Number-Counting and Ordering	Comparing Groups of Objects
Topics	Skill Quests
Teacher directed	

1.3 Represent

N1.4	
Represent and describe whole numbers to 20 concretely, pictorially, and symbolically.	
Course Topics	Activities
Number-Counting and Ordering	Making Teen Numbers
	Before, After and Between to 20
Topics	Skill Quests
Represent & describe numbers to 20	Number names to 20
	Sequencing numbers to 20
	Partitioning numbers to 20

N1.5	
Compare sets containing up to 20 elements to solve problems using: referents (known quantity), one-to-one correspondence.	
Course Topics	Activities
Number-Counting and Ordering	Arranging Numbers
	Compare Numbers to 20
Topics	Skill Quests
Compare & order sets up to 20	Comparing & ordering sets up to 20
	Exploring change in quantity up to 20

N1.6	
Estimate quantities to 20 by using referents.	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

N1.7	
Demonstrate, concretely, physically, and pictorially, how whole numbers can be represented by a variety of equal groupings with and without singles.	
Course Topics	Activities
Number-Counting and Ordering	Divide Into Equal Groups
Topics	Skill Quests
Represent numbers to 30	Representing numbers to 30 in equal groups

N1.8	
Identify the number, up to 20, that is one more, two more, one less, and two less than a given number.	
Course Topics	Activities
Number-Counting and Ordering	1 More, 2 Less
Topics	Skill Quests
Numbers more than & less than	Identifying numbers more than & less than

1.4 Problems

N1.9 Demonstrate an understanding of addition of numbers with answers to 20 and the corresponding subtraction facts, concretely, pictorially, physically, and symbolically by: using familiar and mathematical language to describe additive and subtractive actions from their experience, creating and solving problems in context that involve addition and subtraction, modelling addition and subtraction using a variety of concrete and visual representations, and recording the process symbolically.	
Course Topics	Activities
Number-Addition & Subtraction	Adding to Ten
	All about Ten
	All about Twenty
	Subtracting from Ten
	Additive Addition
	Addition
	Related Facts 1
	Model Addition
	Addition Facts
	Model Subtraction
	Subtraction Facts to 18
	Adding to make 5 and 10
	Adding to 5
	Subtracting from 5
Topics	Skill Quests
Addition & subtraction to 20	Adding to 20
	Adding to 20 by bridging to 10
	Subtracting within 20
	Subtracting within 20 by bridging to 10
	Adding & subtracting using a bar model
	Creating add/subtract word problems
	Finding fact families for addition & subtraction
	Adding & subtracting within 20 fluently

1.5 Strategies

N1.10 Describe and use mental mathematics strategies (memorization not intended), such as: counting on and counting back, making 10, doubles, using addition to subtract to determine basic addition facts to 18 and related subtraction facts.	
Course Topics	Activities
Number-Addition & Subtraction	Related Facts 1
	Balance Numbers to 10
	Balance Numbers to 20
	Balance Additions to 20
	Doubles and Halves to 20
	Doubles and Near Doubles
	Doubles and Halves to 10
Topics	Skill Quests
Addition & subtraction strategies	Making a 10
	Addition & subtraction to 18
	Adding & subtracting using doubles
	Introducing commutative property of addition

2 Patterns and Relations

2.1 Patterns and Relations

P1.1	
Demonstrate an understanding of repeating patterns (two to four elements) by: describing, reproducing, extending, creating patterns using manipulatives, diagrams, sounds, and actions.	
Course Topics	Activities
Patterns	Simple Patterns
	Pattern Error
	Missing it!
	Colour Patterns
Topics	Skill Quests
Repeating patterns	Recognizing repeating patterns
	Reproducing repeating patterns
	Manipulating repeating patterns
	Extending repeating patterns
	Describing & creating repeating patterns

P1.2	
Translate repeating patterns from one form of representation to another.	
Course Topics	Activities
Patterns	Simple Patterns
	Pattern Error
	Missing it!
	Colour Patterns
Topics	Skill Quests
Translate repeating patterns	Translating repeating patterns

P1.3	
Describe equality as a balance and inequality as an imbalance, concretely, physically, and pictorially (0 to 20).	
Course Topics	Activities
Patterns	Balancing Act
Topics	Skill Quests
Equality & inequality	Exploring equality & inequality

P1.4	
Record equalities using the equal symbol.	
Course Topics	Activities
Number-Addition & Subtraction	Balance Numbers to 10
	Balance Numbers to 20
Topics	Skill Quests
Record equalities	Recording equalities
	Solving addition & subtraction equality problems

3 Shape and Space

3.1 Shape and Space

SS1.1	
Demonstrate an understanding of measurement as a process of comparing by: identifying attributes that can be compared, ordering objects, making statements of comparison, filling, covering, or matching.	
Course Topics	Activities
Shape and Space	Collect the Shapes
	Collect the Objects
	Collect the Objects 1
	Collect Simple Shapes
	Match the Solid 1
Shape and Space-Measurement	How Full?
	Everyday Mass
	Comparing Length
	Filling Fast!
	Everyday Length
	Comparing Volume
	Compare Length
	Measuring Length with Blocks
Topics	Skill Quests
Measurement	Exploring length
	Exploring volume
	Exploring mass
	Exploring area

SS1.2	
Sort 3-D objects and 2-D shapes using one attribute, and explain the sorting rule.	
Course Topics	Activities
Shape and Space	Collect the Shapes
	Collect the Objects
	Collect the Objects 1
	Collect More Shapes
	Same and Different
	Sort It
Topics	Skill Quests
Sort 2-D shapes & 3-D objects	Sorting 2-D shapes
	Sorting 3-D objects

SS1.3 Replicate composite 2-D shapes and 3-D objects.	
Course Topics	Activities
Shape and Space	Collect Simple Shapes
	Sort It
	Same and Different
Topics	Skill Quests
Replicate composite 2-D shapes	Replicating composite 2-D shapes
Replicate composite 3-D objects	Replicating composite 3-D objects

SS1.4 Compare 2-D shapes to parts of 3-D objects in the environment.	
Course Topics	Activities
Shape and Space	Match the Solid 1
	Match the Object
	Relate Shapes and Solids
	Match the Solid 2
Topics	Skill Quests
Compare 2-D shapes to 3-D objects	Comparing 2-D shapes to parts of 3-D objects

Grade 2

1 Number

1.1 Count and Represent

N2.1 Demonstrate understanding of whole numbers to 100 (concretely, pictorially, physically, orally, in writing, and symbolically) by: representing (including place value), describing, skip counting, differentiating between odd and even numbers, estimating with referents, comparing two numbers, ordering three or more numbers.	
Course Topics	Activities
Number - Counting and Ordering 1	Counting Forward
	Going Up
	Going Down
	Reading Numbers to 30
	Making Numbers Count
	Count by Tens
	Count by Twos
	Count by Fives
	Skip Counting with Coins
	Counting on a 100 grid
	Count by 2s, 5s and 10s
Number - Counting and Ordering 2	Arranging Numbers
	Number Line Order
	Making Big Numbers Count
	Number Lines
	Odd and Even Numbers 1
	Compare Numbers to 100
	Place Value 1
	Concept of Zero
	Repartition Two-digit Numbers
	Greater or Less to 100
	Odd or Even
Topics	Skill Quests
Number sequences	Counting by 2s to 100
	Counting by 5s to 100
	Counting by 10s to 100
	Counting by 10s to 100 from any number
	Counting in 2s, 5s or 10s
Even & odd numbers	Even & odd numbers
Ordinal numbers	Introducing ordinal numbers
Numbers to 100	Number names to 100
	Counting collections to 50
	Numbers to 100
	Representing numbers to 100 using a tally
	Counting in tens & ones

Count a sum of money to 100¢	Counting a sum of money to 100¢
Compare & order numbers to 100	Comparing & ordering numbers to 100
Place value of numbers to 100	Place value of numbers to 50
	Standard partitioning of numbers to 100
	Non-standard partitioning of numbers to 100
Place value problems: 2-digit numbers	Solving place value problems with 2-digit numbers

1.2 Problems and Strategies

N2.2	
Demonstrate understanding of addition (limited to 1 and 2-digit numerals) with answers to 100 and the corresponding subtraction by: representing strategies for adding and subtracting concretely, pictorially, and symbolically, creating and solving problems involving addition and subtraction, estimating, using personal strategies for adding and subtracting with and without the support of manipulatives, analyzing the effect of adding or subtracting zero, analyzing the effect of the ordering of the quantities (addends, minuends, and subtrahends) in addition and subtraction statements.	
Course Topics	Activities
Number - Addition and Subtraction	Additive Addition
	Simple Subtraction
	Add Two 2-Digit Numbers
	Adding In Any Order
	Related Facts 1
	Subtract Numbers
	Complements to 10, 20, 50
	Bar model problems 1
	Composing Numbers to 20
	Add and Subtract Problems
	Adding to 2-digit numbers
	Doubles and Halves to 20
	Doubles and Near Doubles
	Doubles and Halves to 10
Topics	Skill Quests
Add & subtract a zero	Adding & subtracting a zero
Addition & subtraction to 18	Adding & subtracting to 18
	Adding doubles & near doubles
	Solving number problems using near doubles
	Using the commutative property of addition
	Counting on by bridging to 10
	Addition & subtraction facts - word problems
Addition within 100	Adding 2-digit & 1-digit numbers using place value
	Adding by bridging to 10 with 2- & 1-digit numbers
	Adding tens to a 2-digit number using models
	Adding two 2-digit numbers 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 within 100	Adding up to find the 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

2.1 Patterns and Relations

P2.1	
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.	
Course Topics	Activities
Patterns	Pattern Error
	Missing it!
	Balancing Act
Topics	Skill Quests
Explore repeating patterns	Creating & extending repeating patterns
	Identifying repeating patterns
	Numeric patterns

P2.2	
Demonstrate understanding of increasing patterns by: describing, reproducing, extending, creating patterns using manipulatives, pictures, sounds, and actions (numbers to 100).	
Course Topics	Activities
Patterns	Increasing Patterns
Topics	Skill Quests
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

P2.3	
Demonstrate understanding of equality and inequality concretely 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.	
Course Topics	Activities
Patterns	Balancing Act
	Composing Numbers to 20
Topics	Skill Quests
Equality & inequality	Introducing equality & inequality
Using the equal & not-equal symbol	Using the equal & not-equal symbol

3 Shape and Space

3.1 Shape and Space

SS2.1	
Demonstrate understanding of non-standard units for linear measurement by: describing the choice and appropriate use of non-standard units, estimating, measuring, comparing and analyzing measurements.	
Course Topics	Activities
Space and Shape	Comparing Length
	Measuring Length with Blocks
Topics	Skill Quests
Non-standard measurement: length	Exploring non-standard measurement of length
	Comparing & ordering objects by length
	Measuring length using nonstandard units

SS2.2	
Demonstrate understanding of non-standard units for measurement of mass by: describing the choice and appropriate use of non-standard units, estimating, measuring, comparing and analyzing measurements.	
Course Topics	Activities
Space and Shape	Everyday Mass
Topics	Skill Quests
Non-standard measurement: mass	Non-standard measurement of mass
	Comparing & ordering objects by mass

SS2.3	
Describe, compare, and construct 3-D objects, including: cubes, spheres, cones, cylinders, pyramids.	
Course Topics	Activities
Space and Shape	Collect the Objects
Topics	Skill Quests
3-D objects	Introducing spheres
	Introducing cones
	Introducing cubes
	Introducing cylinders
	Introducing pyramids
	Introducing prisms
	Identifying 3-D objects
	Comparing 3-D objects

SS2.4 Describe, compare, and construct 2-D shapes, including: triangles, squares, rectangles, circles.	
Course Topics	Activities
Space and Shape	Collect the Shapes
	Collect More Shapes
Topics	Skill Quests
2-D shapes	Naming 2-D shapes
	Comparing 2-D shapes

SS2.5 Demonstrate understanding of the relationship between 2-D shapes and 3-D objects.	
Course Topics	Activities
Space and Shape	Relate Shapes and Solids
Topics	Skill Quests
Sort 2-D shapes & 3-D objects	Sorting 2-D shapes
	Sorting 3-D objects
Identify 2-D shapes in the environment	Identifying 2-D shapes in the environment

4 Statistics and Probability

4.1 Statistics and Probability

SP2.1 Demonstrate understanding of concrete graphs and pictographs.	
Course Topics	Activities
Statistics and Probability	Comparing Groups of Objects
	Analyzing Data
	Tallies
	Pictographs
	Making Graphs
Topics	Skill Quests
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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