

# Mathletics

## New Brunswick Curriculum

### Activities (Courses) and Skill Quests



**Grades 1-2**

July, 2025

**Mathletics**

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# Kindergarten

## 1 Number

### 1.1 Develop number sense

| K.N1   |                     |
|--|---------------------|
| Say the number sequence by 1s starting anywhere from 1 to 10 and from 10 to 1. |                     |
| Course Topics  | Activities          |
| Number   | Count to 5          |
|  | Order Numbers to 10 |
|  | How Many?           |

| K.N2  |                |
|---|----------------|
| Recognize, at a glance, and name familiar arrangements of 1 to 5 objects or dots. |                |
| Course Topics   | Activities     |
| Number  | How many dots? |

| K.N3   |                    |
|--|--------------------|
| Relate a numeral, 1 to 10, to its respective quantity. |                    |
| Course Topics  | Activities         |
| Number   | Who has the Goods? |
|  | Balancing Act      |

| K.N4  |            |
|---|------------|
| Represent and describe numbers 2 to 10, concretely and pictorially. |            |
| Course Topics   | Activities |
| Teacher directed  |            |

| K.N5  |                              |
|---|------------------------------|
| Compare quantities, 1 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 Use patterns to describe the world & solve problems

| <b>K.PR1</b><br>Demonstrate an understanding of repeating patterns (two or three elements) by: |                      |
|--|----------------------|
| <b>Course Topics</b>   | <b>Activities</b>    |
| Patterns and Relations   | Complete the Pattern |
|  | Missing it!          |
|  | Colour Patterns      |
|  | Simple Patterns      |

## 3 Shape & Space

### 3.1 Use direct or indirect measurement to solve problems

| <b>K.SS1</b><br>Use direct comparison to compare two objects based on a single attribute, such as length (height), mass (weight) and volume (capacity). |                    |
|---|--------------------|
| <b>Course Topics</b>  | <b>Activities</b>  |
| Shape and Space   | Which Holds More?  |
|   | Filling Fast!      |
|   | Everyday Length    |
|   | Everyday Mass      |
|   | Same and Different |
|   | How Heavy?         |

### 3.2 3-D Objects and 2-D Shapes

| <b>K.SS2</b><br>Sort 3-D objects using a single attribute. |                       |
|--|-----------------------|
| <b>Course Topics</b>                                       | <b>Activities</b>     |
| Shape and Space  | Collect the Objects   |
|  | Collect the Objects 1 |

| <b>K.SS3</b><br>Build and describe 3-D objects. |                   |
|---|-------------------|
| <b>Course Topics</b>                            | <b>Activities</b> |
| Shape and Space                                 | Match the Object  |
|   | Match the Solid 1 |
|   | Match the Solid 2 |

# Grade 1

## 1 Number

### 1.1 Develop number sense

| <b>1.N1</b>  |                                 |
|--|---------------------------------|
| 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  | Making Numbers Count            |
|  | 1 to 30                         |
|  | Making Big Numbers Count        |
|  | Number Lines                    |
|  | Counting Forward                |
|  | Counting by Twos                |
|  | Counting by Fives               |
|  | Count by 2s, 5s and 10s         |
|  | Counting by Tens                |
|  | Going Up                        |
|  | Going Down                      |
|  | Counting Up to 20               |
|  | Before, After and Between to 20 |
|  | Counting Back Within 20         |
|  | Before, After & Between to 100  |
|  | Making Teen Numbers             |
| Number-Comparing & Ordering  | Matching Numbers to 10          |
|  | Matching Numbers to 20          |
|  | Arranging Numbers               |
| Topics   | Skill Quests                    |
| Number sequences to 100  | Counting by 1s to 100           |
|  | Skip counting by 2s to 20       |
|  | Skip counting by 5s to 100      |
|  | Skip counting by 10s to 100     |
|  | Skip counting by 2s, 5s & 10s   |

| <b>1.N2</b>  |              |
|--|--------------|
| Recognize, at a glance, and name familiar arrangements of 1 to 10 objects or dots. |              |
| Course Topics  | Activities   |
| Number-Counting  | How Many?    |
| Topics   | Skill Quests |
| Teacher directed   |              |

| <b>1.N3</b>  |  |
|--|--|
| 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                 |
| Teacher directed  |                            |
| Topics  | Skill Quests               |
| Counting strategies   | Counting collections to 20 |

| 1.N4   |                            |
|--|----------------------------|
| Represent and describe numbers to 20 concretely, pictorially and symbolically. |                            |
| Course Topics  | Activities                 |
| Number-Counting  | How many Blocks?           |
| Number-Comparing & Ordering  | Number Line Order          |
| Topics   | Skill Quests               |
| Represent & describe numbers to 20   | Number names to 20         |
|  | Sequencing numbers to 20   |
|  | Partitioning numbers to 20 |

| 1.N5   |                                       |
|--|---------------------------------------|
| Compare sets containing up to 20 elements to solve problems using: referents; one-to-one correspondence. |                                       |
| Course Topics  | Activities                            |
| Number-Comparing & Ordering  | More or Less?                         |
|  | Comparing Groups of Objects           |
|  | Order 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 |

| 1.N6  |              |
|---|--------------|
| Estimate quantities to 20 by using referents. |              |
| Course Topics                                 | Activities   |
| Teacher directed                              |              |
| Topics  | Skill Quests |
| Teacher directed                              |              |

| 1.N7  |                          |
|---|--------------------------|
| Demonstrate, concretely and pictorially, how a given number can be represented by a variety of equal groups with and without singles. |                          |
| Course Topics   | Activities               |
| Number-Comparing & Ordering   | Groups of Two            |
|   | Groups of Five           |
|   | Making Equal Groups      |
|   | Divide Into Equal Groups |
|   | Groups                   |
| Topics  | Skill Quests             |

|                         |  |
|-------------------------|--|
| Represent numbers to 20 | Representing numbers to 20 in equal groups |
|-------------------------|--|

| <b>1.N8</b>   |                               |
|---|-------------------------------|
| 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-Addition & Subtraction   | 1 more, 2 less                |
| Topics  | Skill Quests                  |
| Numbers more than & less than   | Numbers more than & less than |

| <b>1.N9</b>   |  |
|---|--|
| Demonstrate an understanding of addition of numbers with answers to 20 and their corresponding subtraction facts, concretely, pictorially 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; modeling addition and subtraction using a variety of concrete and visual representations, and recording the process symbolically. |  |
| Course Topics   | Activities                                       |
| Number-Addition & Subtraction   | Addition Facts                                   |
|   | Addition   |
|   | Model Addition                                   |
|   | Adding In Any Order                              |
|   | Subtraction Facts to 18                          |
|   | Simple Subtraction                               |
|   | Model Subtraction                                |
|   | Additive Addition                                |
|   | Add and Subtract Using Graphs                    |
|   | Problems: Add and Subtract                       |
|   | All about Ten                                    |
|   | All about Twenty                                 |
|   | Add and Subtract Problems                        |
|   | Adding to 10 Word Problems                       |
| 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 addition & subtraction word problems    |
|   | Finding fact families for addition & subtraction |

| <b>1.N10</b>  |                                 |
|---|---------------------------------|
| Describe and use mental mathematics strategies (memorization not intended), such as: counting on and counting back to determine the basic addition facts to 18 and related subtraction facts; making 10 to determine the basic addition facts to 18 and related subtraction facts; doubles to determine the basic addition facts to 18 and related subtraction facts; using addition to subtract to determine the basic addition facts to 18 and related subtraction facts. |                                 |
| Course Topics   | Activities                      |
| Number-Addition & Subtraction   | Fact Families: Add and Subtract |



|                                   |  |
|-----------------------------------|--|
|                                   | Related Facts 1                              |
|                                   | Composing Additions to 20                    |
|                                   | Adding to make 5 and 10                      |
|                                   | Adding to Ten                                |
|                                   | Doubles and Halves to 10                     |
| <b>Topics</b>                     | <b>Skill Quests</b>                          |
| Addition & subtraction strategies | Making a 10                                  |
|                                   | Adding & subtracting to 18                   |
|                                   | Adding & subtracting using doubles           |
|                                   | Introducing commutative property of addition |

## 2 Patterns and Relations

### 2.1 Use patterns to describe the world and solve problems

| <b>1.PR1</b>  |  |
|---|--|
| Demonstrate an understanding of repeating patterns (two to four elements) by: describing, reproducing, extending and creating patterns using manipulatives, diagrams, sounds and actions. |  |
| Course Topics   | Activities                               |
| Patterns and Relations  | Simple Patterns                          |
|   | Missing it!                              |
|   | Pattern Error                            |
|   | Balancing Act                            |
|   | Colour Patterns                          |
|   | Missing Values                           |
|   | Increasing Patterns                      |
|   | Patterns - Increasing                    |
| Topics  | Skill Quests                             |
| Repeating patterns  | Recognizing repeating patterns           |
|   | Reproducing repeating patterns           |
|   | Manipulating repeating patterns          |
|   | Extending repeating patterns             |
|   | Replicating repeating patterns           |
|   | Describing & creating repeating patterns |

| <b>1.PR2</b>   |                                |
|--|--------------------------------|
| Translate repeating patterns from one representation to another. |                                |
| Course Topics  | Activities                     |
| Teacher directed   |                                |
| Topics   | Skill Quests                   |
| Translate repeating patterns                                     | Translating repeating patterns |

### 2.2 Represent algebraic expressions in multiple ways

| <b>1.PR3</b>   |                                 |
|--|---------------------------------|
| Describe equality as a balance and inequality as an imbalance, concretely and pictorially (0 to 20). |                                 |
| Course Topics  | Activities                      |
| Teacher directed   |                                 |
| Topics   | Skill Quests                    |
| Equality & inequality  | Exploring equality & inequality |

| <b>1.PR4</b>                              |            |
|---|------------|
| Record equalities using the equal symbol. |            |
| Course Topics                             | Activities |

|                        |  |
|------------------------|--|
| Patterns and Relations | More, less or the same to 10                     |
|                        | More, less or the same to 20                     |
| <b>Topics</b>          | <b>Skill Quests</b>                              |
| Record equalities      | Recording equalities                             |
|                        | Solving addition & subtraction equality problems |

## 3 Shape & Space

### 3.1 Use direct or indirect measurement to solve problems

| <b>1.SS1</b>   |                  |
|--|------------------|
| 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  | Biggest Shape    |
|  | Filling Fast!    |
|  | Everyday Length  |
| Topics   | Skill Quests     |
| Measurement  | Exploring length |
|  | Exploring volume |
|  | Exploring mass   |
|  | Exploring area   |

### 3.2 Describe 3-D objects and 2-D shapes, and analyze the relationships

| <b>1.SS2</b>   |                       |
|--|-----------------------|
| Sort 3-D objects and 2-D shapes using one attribute, and explain the sorting rule. |                       |
| Course Topics  | Activities            |
| Shape and Space  | Which Holds More?     |
|  | Sort It               |
|  | Collect the Shapes    |
|  | Collect the Objects   |
|  | Collect Simple Shapes |
| Topics   | Skill Quests          |
| Sort 2-D shapes & 3-D objects  | Sorting 2-D shapes    |
|  | Sorting 3-D objects   |

| <b>1.SS3</b>                                    |                                   |
|---|-----------------------------------|
| Replicate composite 2-D shapes and 3-D objects. |                                   |
| Course Topics                                   | Activities                        |
| Teacher directed                                |                                   |
| Topics  | Skill Quests                      |
| Replicate composite 2-D shapes                  | Replicating composite 2-D shapes  |
| Replicate composite 3-D objects                 | Replicating composite 3-D objects |

| <b>1.SS4</b>   |                  |
|--|------------------|
| Compare 2-D shapes to parts of 3-D objects in the environment. |                  |
| Course Topics  | Activities       |
| Shape and Space  | Match the Object |

|                                   | Match the Solid 1                            |
|-----------------------------------|--|
| 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 Develop number sense

| <b>2.N1</b><br>Say the number sequence, 0 to 100, by: 2s, 5s and 10s, forward and backward, using starting points that are multiples of 2, 5 and 10 respectively; 10s using starting points from 1 to 9; 2s starting from 1. |  |
|--|--|
| Course Topics  | Activities                             |
| Number-Counting  | Counting by Twos                       |
|  | Counting by Fives                      |
|  | Counting by Tens                       |
|  | Count by 2s, 5s and 10s                |
|  | Counting on a 100 grid                 |
|  | Skip Counting                          |
|  | Skip Counting with coins               |
|  | Going Up                               |
|  | Going Down                             |
|  | Counting Forwards                      |
|  | 1 to 30                                |
|  |  |
| Number-Place Value & Ordering  | Number Line Order                      |
|  | Repartition Two-digit Numbers          |
| Topics   | Skill Quests                           |
| Number sequences   | Counting by 2s to 100                  |
|  | Counting by 2s to 100 from any number  |
|  | Counting by 5s to 100                  |
|  | Counting by 10s to 100                 |
|  | Counting by 10s to 100 from any number |
|  | Counting in 2s, 5s or 10s              |
|  | Counting a sum of money to 100¢        |

| <b>2.N2</b><br>Demonstrate if a number (up to 100) is even or odd. |                        |
|--|------------------------|
| Course Topics  | Activities             |
| Number-Counting  | How Many?              |
| Number-Place Value & Ordering                                      | Odd and Even Numbers 1 |
|  | Odd or Even            |
| Topics   | Skill Quests           |
| Even & odd numbers   | Even & odd numbers     |

| <b>2.N3</b><br>Describe order or relative position using ordinal numbers (up to tenth). |  |
|---|--|
|---|--|

| Course Topics   | Activities                  |
|-----------------|-----------------------------|
| Number-Counting | Ordinal Numbers             |
|                 | 1st to 31st                 |
| Topics          | Skill Quests                |
| Ordinal numbers | Introducing ordinal numbers |

| 2.N4   |   |
|--|---|
| Represent and describe numbers to 100, concretely, pictorially and symbolically. |   |
| Course Topics  | Activities                              |
| Number-Counting  | Reading Numbers to 30                   |
| Number-Place Value & Ordering  | Model Numbers                           |
| Topics   | Skill Quests                            |
| Numbers to 100   | Number names to 100                     |
|  | Counting collections to 50              |
|  | Counting to 100                         |
|  | Numbers to 100 using a tally            |
|  | Using coins to represent numbers to 100 |

| 2.N5                                     |  |
|--|--|
| Compare and order numbers up to 100.     |  |
| Course Topics                            | Activities                                   |
| Number-Place Value & Ordering            | Arranging Numbers                            |
|  | Place value 1                                |
|  | Greater or Less to 100                       |
|  | Understanding Place Value 1                  |
| Pattern, Relations, Variables, Equations | Compare Numbers to 50                        |
| Topics                                   | Skill Quests                                 |
| Compare & order numbers to 100           | Comparing & ordering numbers to 100          |
|  | Identifying numbers before & after up to 100 |

| 2.N6  |              |
|---|--------------|
| Estimate quantities to 100 using referents. |              |
| Course Topics                               | Activities   |
| Teacher directed                            |              |
| Topics                                      | Skill Quests |
| Teacher directed                            |              |

| 2.N7  |                      |
|---|----------------------|
| Illustrate, concretely and pictorially, the meaning of place value for numerals to 100. |                      |
| Course Topics   | Activities           |
| Number-Place Value & Ordering   | Making Equal Groups  |
|   | Making Numbers Count |

|                                    | Making Big Numbers Count                          |
|------------------------------------|---|
|                                    | Make Numbers Count                                |
|                                    | Number Lines                                      |
| Topics                             | Skill Quests                                      |
| Place value partitioning up to 100 | Place value partitioning of numbers to 50         |
|                                    | Non-standard partitioning of numbers to 100       |
| Solve 2-digit place value problems | Solving place value problems with 2-digit numbers |

| 2.N8  |                             |
|---|-----------------------------|
| Demonstrate and explain the effect of adding zero to or subtracting zero from any number. |                             |
| Course Topics   | Activities                  |
| Number-Place Value & Ordering   | Concept of zero             |
| Topics  | Skill Quests                |
| Add & subtract a zero   | Adding & subtracting a zero |

| 2.N9   |  |
|--|--|
| Demonstrate an understanding of addition (limited to 1 and 2-digit numerals) with answers to 100 and the corresponding subtraction by: using personal strategies for adding and subtracting with and without the support of manipulatives; creating and solving problems that involve addition and subtraction; explaining that the order in which numbers are added does not affect the sum; explaining that the order in which numbers are subtracted may affect the difference. |  |
| Course Topics  | Activities   |
| Number-Addition  | Compensation – Add                                 |
|  | Add Three 1-Digit Numbers                          |
|  | Add Numbers: Regroup a Ten                         |
|  | Commutative Property of Addition                   |
|  | Complements to 10, 20, 50                          |
|  | Additive Addition                                  |
|  | Add Two 2-Digit Numbers                            |
|  | Adding to 2-digit numbers                          |
|  | Adding In Any Order                                |
|  | Model Addition                                     |
|  | Related Facts 1                                    |
|  | Doubles and Near Doubles                           |
|  | Doubles and Halves to 20                           |
|  | Doubles and Halves to 10                           |
|  | Bar model problems 1                               |
|  | Add 3 Numbers Using Bonds to 10                    |
| Number-Subtraction   | Subtract Tens                                      |
|  | Compensation – Subtract                            |
|  | Subtract Numbers                                   |
|  | Subtract Numbers: Regroup                          |
|  | Simple Subtraction                                 |
|  | Mental Subtraction                                 |
| Topics   | Skill Quests                                       |
| Addition to 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 using compatible numbers                    |
|                                   | 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       |
| Addition & subtraction within 100 | Subtracting by compensating                        |
|                                   | 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.N10

Apply mental mathematics strategies, such as: using doubles to determine basic addition facts to 18 and related subtraction facts; making 10 to determine basic addition facts to 18 and related subtraction facts; one more, one less to determine basic addition facts to 18 and related subtraction facts; two more, two less to determine basic addition facts to 18 and related subtraction facts; building on a known double to determine basic addition facts to 18 and related subtraction facts; addition for subtraction to determine basic addition facts to 18 and related subtraction facts.

| Course Topics                | Activities                                       |
|------------------------------|--|
| Number-Subtraction           | Repartition to Subtract                          |
| Topics                       | Skill Quests                                     |
| Addition & subtraction to 18 | Addition & subtraction to 18                     |
|                              | Adding using doubles                             |
|                              | 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

### 2.1 Use patterns to describe the world and solve problems

| <b>2.PR1</b>  |   |
|---|---|
| Demonstrate an understanding of repeating patterns (three to five elements): identify the core of a given repeating pattern; describe and extend a given double attribute pattern; explain the rule used to create a given repeating non-numerical pattern; predict an element in a given repeating pattern using a variety of strategies; predict an element of a given repeating pattern and extend the pattern to verify the prediction. |   |
| Course Topics   | Activities                              |
| Pattern, Relations, Variables, Equations  | Count Forward Patterns                  |
|   | Increasing Patterns                     |
|   | Pattern Error                           |
|   | Describing Patterns                     |
|   | Missing Values                          |
| Topics  | Skill Quests                            |
| Explore repeating patterns  | Creating & extending repeating patterns |
|   | Identifying repeating patterns          |
|   | Numeric patterns                        |

| <b>2.PR2</b>   |  |
|--|--|
| Demonstrate an understanding of increasing patterns (for PR1 and PR2) by: describing, extending, comparing and creating patterns using manipulatives, diagrams, sounds and actions (numbers to 100). |  |
| Course Topics  | Activities                                       |
| Teacher directed   |  |
| Topics   | Skill Quests                                     |
| Explore increasing number patterns   | Exploring addition & subtraction 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                        |

### 2.2 Represent algebraic expressions in multiple ways

| <b>2.PR3</b>   |                                   |
|--|-----------------------------------|
| Demonstrate and explain the meaning of equality and inequality by using manipulatives and diagrams (0 to 100). |                                   |
| Course Topics  | Activities                        |
| Pattern, Relations, Variables, Equations   | Balancing Act                     |
| Topics   | Skill Quests                      |
| Equality & inequality  | Introducing equality & inequality |
| <b>2.PR4</b>   |                                   |
| Record equalities and inequalities symbolically, using the equal symbol or the not equal symbol.               |                                   |

| Course Topics                            | Activities                          |
|--|-------------------------------------|
| Pattern, Relations, Variables, Equations | Compare Numbers to 20               |
|  | Compare Numbers to 100              |
| Topics                                   | Skill Quests                        |
| Use the equal & not-equal symbols        | Using the equal & not-equal symbols |

### 3 Shape & Space

#### 3.1 Use direct or indirect measurement to solve problems

| <b>2.SS1</b>   |                                       |
|--|---------------------------------------|
| Relate the number of days to a week and the number of months to a year in a problem-solving context. |                                       |
| Course Topics  | Activities                            |
| Shape and Space-Measurement  | Using a Calendar                      |
|  | Days of the Week                      |
|  | Months of the Year                    |
| Topics   | Skill Quests                          |
| Explore the passing of time  | Calendars                             |
|  | Days of the week & months of the year |

| <b>2.SS2</b>   |                                    |
|--|------------------------------------|
| Relate the size of a unit of measure to the number of units (limited to nonstandard units) used to measure length and mass (weight). |                                    |
| Course Topics  | Activities                         |
| Shape and Space-Measurement  | Everyday Length                    |
|  | Comparing Length                   |
|  | Everyday Mass                      |
|  | How Long is That?                  |
|  | Measuring length with blocks       |
| Topics   | Skill Quests                       |
| Non-standard measurement   | Non-standard measurement of length |
|  | Non-standard measurement of mass   |

| <b>2.SS3</b>   |  |
|--|--|
| Compare and order objects by length, height, distance around and mass (weight) using nonstandard units, and make statements of comparison. |  |
| Course Topics  | Activities                             |
| Teacher directed   |  |
| Topics   | Skill Quests                           |
| Compare & order objects  | Comparing & ordering objects by length |
|  | Comparing & ordering objects by mass   |

| <b>2.SS4</b>  |            |
|---|------------|
| Measure length to the nearest non-standard unit by: using multiple copies of a unit; using a single copy of a unit (iteration process). |            |
| Course Topics   | Activities |

| Teacher directed                        |   |
|---|---|
| Topics                                  | Skill Quests                              |
| Measure length using non-standard units | Measuring length using non-standard units |

| 2.SS5   |              |
|---|--------------|
| Demonstrate that changing the orientation of an object does not alter the measurements of its attributes. |              |
| Course Topics   | Activities   |
| Teacher directed  |              |
| Topics  | Skill Quests |
| Teacher directed  |              |

### 3.2 Describe 3-D objects and 2-D shapes, and analyze the relationships

| 2.SS6   |                       |
|---|-----------------------|
| Sort 2-D shapes and 3-D objects using two attributes, and explain the sorting rule. |                       |
| Course Topics   | Activities            |
| Shape & Space-3-D Objects & 2-D Shapes  | Sort It               |
|   | Collect the Objects   |
|   | Collect the Objects 1 |
|   | Collect the Objects 2 |
|   | Collect Simple Shapes |
|   | Collect the Shapes    |
|   | Collect the Shapes 1  |
|   | Collect the Shapes 2  |
| Topics  | Skill Quests          |
| Sort 2-D shapes & 3-D objects   | Sorting 2-D shapes    |
|   | Sorting 3-D shapes    |

| 2.SS7   |                                       |
|---|---------------------------------------|
| Describe, compare and construct 3-D objects, including: cubes; spheres; cones; cylinders; pyramids. |                                       |
| Course Topics   | Activities                            |
| Teacher directed  |                                       |
| Topics  | Skill Quests                          |
| Introduce 3-D objects   | Introducing spheres                   |
|   | Introducing cones                     |
|   | Introducing cubes                     |
|   | Introducing cylinders                 |
|   | Introducing pyramids                  |
|   | Introducing prisms                    |
|   | Identifying 3-D objects               |
|   | Identifying attributes of 3-D objects |
|   | Comparing 3-D objects                 |

| <b>2.SS8</b>  |                      |
|---|----------------------|
| Describe, compare and construct 2-D shapes, including: triangles; squares, rectangles; circles. |                      |
| Course Topics   | Activities           |
| Teacher directed  |                      |
| Topics  | Skill Quests         |
| Identify and compare 2-D shapes   | Naming 2-D shapes    |
|   | Comparing 2-D shapes |

| <b>2.SS9</b>   |   |
|--|---|
| Identify 2-D shapes as parts of 3-D objects in the environment |   |
| Course Topics  | Activities                                |
| Shape & Space-3-D Objects & 2-D Shapes                         | Relate Shapes and Solids                  |
|  | Match the Object                          |
|  | Match the Solid 1                         |
|  | Match the Solid 2                         |
| Topics   | Skill Quests                              |
| Identify 2-D shapes in the environment                         | Identifying 2-D shapes in the environment |

## 4 Statistics and Probability

### 4.1 Collect, display and analyze data to solve problems

| <b>2.SP1</b>  |                            |
|---|----------------------------|
| Gather and record data about self and others to answer questions. |                            |
| Course Topics   | Activities                 |
| Statistics & Probability-Data Analysis                            | Tallies                    |
|   | Making Graphs              |
|   | Sorting Data               |
| Topics  | Skill Quests               |
| Gather & record data  | Gathering & recording data |

| <b>2.SP2</b>   |                                   |
|--|-----------------------------------|
| Construct and interpret concrete graphs and pictographs to solve problems. |                                   |
| Course Topics  | Activities                        |
| Statistics & Probability-Data Analysis                                     | Pictographs                       |
|  | Add and Subtract Using Graphs     |
| Topics   | Skill Quests                      |
| Interpret data   | Using pictographs                 |
|  | Using basic graphs                |
|  | Using a tally                     |
|  | Making a graph                    |
|  | Answering questions about a graph |



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