

Grade 3 Sample Long-Range Pathway (National)

In the example below, the suggested learning is balanced, starting with Patterning, but focused on Number most of the first months of math instruction. Refer to your province’s curriculum to build a plan for your classroom.

|  | Strand | Big Ideas | Conceptual Threads | Activity Kit | Mathology Little Books |
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| Sept. | Number | Numbers tell us how many and how much  Numbers are related in many ways  Quantities and numbers can be grouped by or partitioned into equal-sized units. | Applying the principles of counting  Recognizing and writing numerals  Estimating quantities and numbers  Unitizing quantities and comparing units to the whole | Number Unit 1  Counting  Activities 1-4  1 Numbers All Around Us  2 Counting to 1000  3 Skip Counting Forward and Backward  4 Counting Consolidation | How Numbers Work  To Scaffold  What Would You Rather?  Ways to Count |
| Oct. | Patterning and Algebra | 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)  Identifying, reproducing, extending, and creating patterns that repeat  Representing and generalizing increasing and decreasing patterns | Patterning and Algebra Unit 1  Increasing and Decreasing Patterns  Activities 1-7  1 Describing and Extending Patterns  2 Representing Patterns  3 Creating Patterns  6 Exploring Multiplicative Patterns  7 Increasing and Decreasing Patterns Consolidation | Namir’s Marvelous Masterpieces  To Scaffold  Pattern Quest  The Best Surprise |
| Oct. | Number | Numbers tell us how many and how  much**.**  Numbers are related in many ways  Quantities and numbers can be grouped  by or partitioned into equal-sized units. | Applying the principles of counting  Recognizing and writing numerals  Comparing and ordering quantities (multitude or magnitude)  Estimating quantities and numbers  Decomposing wholes into parts and composing wholes from parts  Unitizing quantities into ones, tens, and hundreds place-value concepts) | Number Unit 2  Number Relationships  Activities 5-8  5 Estimating Quantities  6 Composing and Decomposing Quantities  7 Comparing and Ordering Quantities  8 Number Relationships Consolidation | Fantastic Journeys  To Scaffold  What Would You Rather?  Back to Batoche  The Great Dogsled Race |
| Nov | Number | Numbers tell us how many and how  much**.**  Quantities and Numbers can be partitioned into equal-sized units  Numbers are related in many ways | Applying the principles of counting  Recognizing and writing numerals  Unitizing quantities into ones, tens, hundreds (place value concepts)  Comparing and ordering quantities (multitude or magnitude)  Estimating quantities and numbers | Number Unit 3  Place Value  Activities 9-13  9 Building Numbers  10 Representing Numbers in Different Ways  11 What’s the Number  12 Rounding Numbers  13 Place Value Consolidation | Finding Buster  How Numbers Work  To Scaffold  A Class Full of Projects |
| Nov. | Number | Quantities and Numbers can be partitioned into equal-sized units  Quantities and numbers can be added and subtracted to tell how many and how much | Unitizing quantities into ones, tens, hundreds (place value concepts)  Developing fluency of addition and subtraction computation  Developing conceptual meaning of addition and subtraction | Number Unit 5  Addition and Subtraction  Activities 19-26  19 Modelling Addition and Subtraction  20 Estimating Sums and Differences  21 Adding and Subtracting Money Amounts  22 Using Mental Math to Add and Subtract  24 Creating and Solving Problems  25 Creating and Solving Problems with Larger Numbers  26 Addition and Subtraction Consolidation | The Street Party  Planting Seeds  To Scaffold  Array’s Bakery  Marbles, Alleys, Mibs, and Guli!  The Great Dogsled Race |
| Dec. | Measurement | Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared  Assigning a unit to a continuous attribute allows us to measure and make comparisons | Understanding attributes that can be measured  Directly and Indirectly comparing and ordering objects with the same measurable attribute  Selecting and using non-standard units to estimate, measure, make comparisons  Selecting and using standard units to estimate, measure, and make comparisons | Measurement Unit 3  Area, Mass and Capacity  Activities 13-17  13 Measuring Area Using Non-Standard Units  14 Measuring Area Using Standard Units  15 Measuring Mass  16 Measuring Capacity  17 Area Mass and Capacity Consolidation | The Bunny Challenge  Measurements About You!  To Scaffold  Getting Ready for School |
| Dec. | Measurement | 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 | Measurement Unit 1  Length and Perimeter  Activities 1-5  1 Estimating Length  2 Relating Centimetres and Metres  3 Measuring Length  4 Introducing Perimeter  5 Length and Perimeter Consolidation | The Bunny Challenge  Measurements About You!  To Scaffold  The Discovery |
| Jan. | Geometry | 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes  2-D shapes and 3-D solids can be transformed in many ways and analyzed for change | Investigating geometric attributes and properties of  2-D shapes and 3-D solids  Exploring 2-D shapes by applying and visualizing transformations | Geometry Unit 1  2-D Shapes  Activities 1-5  1 Sorting Polygons  12 Symmetry and Transformations: Exploring Congruency  2 What’s the Sorting Rule?  3 Composing Shapes  5 2-D Shapes Consolidation | Gallery Tour  To Scaffold  I Spy Awesome Buildings  Sharing Our Stories |
| Feb. | Patterning and Algebra | Patterns and relations can be represented with symbols, equations, and expressions | Using symbols, unknowns, and variables to represent mathematical relation | Patterning and Algebra Unit 2  Variables and Equations  Activities 9-12  9a Equivalent Expressions  9 Strategies for Solving Equations  11 Creating Equations  12 Variables and Equations: Consolidation | A Week of Challenges  To Scaffold  Kokum’s Bannock |
| Mar. | Geometry | 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  Investigating  2-D shapes, 3-D solids, and their attributes through composition and decomposition | Geometry Unit 2  3-D Solids  Activities 6-10  6 Exploring Geometric Attributes of Solids  7 Building Solids  9 Working with Nets  10 3-D: Consolidation | Wonderful Buildings  To Scaffold  I Spy Awesome Buildings |
| Mar. | Measurement | Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared  Assigning a unit to a continuous attribute allows us to measure and make comparisons | Understanding attributes that can be measured  Understanding relationships among measurement units | Measurement Unit 2  Time and Temperature  Activities 8-12  8 Measuring the Passage of Time  9 Relationships Among Units of Time  10 Telling Time  11 Reading a Thermometer  12 Consolidation | Math Makes Me Laugh |
| Apr. | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Developing fluency of addition and subtraction computation  Developing conceptual meaning of addition and subtraction | Number Unit 7  Financial Literacy  \*Not required, but recommended  Activities 34-38  34 Estimating and Counting Money  36 Purchasing and Making Change  38 Financial Literacy: Consolidation | The Street Party  To Scaffold  The Money Jar |
| Apr. | Number | Quantities and numbers can be grouped by and partitioned into units to determine how many and much | Developing the conceptual meaning of multiplication and division | Number Unit 6  Multiplication and Division  Activities 27-33  27 Exploring Multiplication  28 Exploring Division  29 Relating Multiplication and Division  30 Properties of Multiplication  31 Creating and Solving Problems  32 Building Fluency; The Games Room  33 Multiplication and Division: Consolidation | Planting Seeds  Sports Camp  To scaffold  Array’s Bakery  Marbles, Alleys, Mibs, and Guli! |
| May | Data Management and Probability | Formulating questions, collecting data, and consolidating data in visual and graphical displays helps us to understand, predict, and interpret situations that involve uncertainty, variability and randomness | Formulating questions to learn about groups, collections, and events by collecting relevant data  Collecting data and organizing it into categories  Creating graphical displays of collected data  Reading and interpreting data displays  Drawing conclusions by making inferences and justifying decisions based on data collected | Data Management and Probability  Data Management  Activities 1-6  1 Interpreting Bar Graphs  2 Interpreting Line Plots  3 Collecting Data (distinguish between 1st and 2nd hand data)  4 Drawing Bar Graphs  5 Drawing Line Plots  6 Consolidation | Welcome to the Nature Park  To scaffold  Graph It! (Grade 1)  Big Buddy Day  Marsh Watch |
| May | Data Management and Probability | Formulating questions, collecting data, and consolidating data in visual and graphical displays helps us to understand, predict, and interpret situations that involve uncertainty, variability and randomness | Using the language of chance to describe and predict events | Data Management and Probability Unit 2  Probability and Chance  Activities 6-8  6 Making Predictions  7 Describing the Likelihood of Outcomes  8 Probability and Chance Consolidation | Chance |
| May | Number | Quantities and numbers can be grouped by or partitioned into equal-sized units | Partitioning quantities to form fractions | Number Unit 4  Fractions  Activities 14-18  14 Exploring Equal Parts  15 Comparing fractions 1  16 Comparing Fractions 2  17 Partitioning Sets  18 Fractions Consolidation | Hockey Homework  To Scaffold  The Best Birthday |
| June | Geometry | Objects can be located in space and viewed from multiple perspectives | Locating and mapping objects in space  Viewing and representing objects from multiple perspectives | Geometry Unit 4  Mapping and Coding  \*Not required, but recommended  Activities 15-19  15 Describing Location  13 Exploring Transformations  16 Describing Movement on a Map  17 Coding on a Grid  18 Exploring Loops on Coding  19 Mapping and Coding: Consolidation | Finding Buster  To Scaffold  Robo |