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
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

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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

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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

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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

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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

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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

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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

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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

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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