



Grade 2 Mathology.ca Ontario Sample Long-Range Pathway

In the example below, the suggested learning is balanced, starting with Patterning, but focused on Number most of the first months of math instruction.

	Strand	Big Ideas	Activity Kit	Math Every Day Activities	Mathology Little Books
Sept.	Patterning and Algebra	Regularity and repetition form patterns that can be generalized and predicted	Patterning and Algebra Cluster 1 Repeating Patterns 1.Exploring Patterns 2.Extending and Predicting 3.Errors and Missing Elements 4.Combining Attributes 5.Consolidation	Repeating Patterns Card 1: Show Another Way/ Repeating Patterns Around Us	Pattern Quest
Sept.	Number	Numbers tell us how many and how much	Number Cluster 1 Counting 1.Bridging Tens 2.Skip-Counting Forward 3.Skip-Counting Flexibly 4.Skip-Counting Backward 5.Consolidation	Skip-Counting Card 1A: Skip-Counting on a Hundred Chart/ Skip-Counting from Any Number Card 1B: Skip-Counting with Actions/What's Wrong? What's Missing?	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	Patterning and Algebra Cluster 2 Increasing /Decreasing Patterns 6.Increasing Patterns 1 7.Increasing Patterns 2 8.Decreasing Patterns 9.Extending Patterns 10.Reproducing Patterns 11.Creating Patterns 12.Errors and Missing Terms 13.Solving Problems 14.Patterns in Number Relationships 15.Consolidation	Increasing/Decreasing Patterns Card 2A: How Many Can We Make?/Error Hunt Card 2B: Making Increasing Patterns/ Making Decreasing Patterns	Pattern Quest The Best Surprise Hunt
Oct.	Number	Numbers are related in many ways	Number Cluster 2 Number Relationships 1 6.Comparing Quantities 7.Ordering Quantities 8.Comparing and Ordering Numbers to 200 9.Odd and Even Numbers 10.Estimating with Benchmarks 11.Consolidation	Number Relationships 1 Card 2A: Show Me in Different Ways/Guess My Number Card 2B: Math Commander/ Building an Open Number Line	What Would You Rather? Back to Batoche The Great Dogsled Race
Oct.	Number	Quantities and Numbers can be partitioned into equal-sized units	Number Cluster 3 Grouping and Place Value 12.Building Numbers to 100 13.Making a Number Line 14.Grouping to Count 15.Building Numbers to 200 16.Consolidation	Grouping and Place Value Card 3A: Adding Ten/Taking Away Ten Card 3B: Thinking Tens/Describe Me	A Class-Full of Projects

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Nov.	Number	Quantities and numbers can be added and subtracted to tell how many and how much	Number Cluster 7 Operational Fluency 33.Using Doubles 34.Fluency with 20 35.Mastering Addition and Subtraction Facts 36.Multi-Digit Fluency 37.Consolidation	Operational Fluency Card 7A: Doubles and Near Doubles/I have... I need... Card 7B: Hungry Bird/Make 10 Sequences	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	Measurement Cluster 1 Using Non-Standard Units 1.Measuring Length 1 2.Measuring Length 2 3.Measuring Distance Around 4.Consolidation	Using Non-Standard Units Card 1: Estimation Scavenger Hunt/Estimation Station	Getting Ready for School
Dec.	Measurement	Assigning a unit to a continuous attribute allows us to measure and make comparisons	Measurement Cluster 2 Using Standard Units 5.Benchmarks and Estimation 6.The Metre 7.The Centimetre 8.Metres or Centimetres? 9.Consolidation	Using Standard Units Card 2: What am I?/Which unit?	Animal Measures (Grade 1) The Discovery
Jan.	Number	Numbers are related in many ways	Number Cluster 5 Number Relationships 2 23.Benchmarks on a Number Line 24.Jumping on the Number Line 25.Composing and Decomposing Numbers to 200 26.Consolidation	Number Relationships 2 Card 5A: Which Ten Is Nearer?/ Building Numbers Card 5B: How Many Ways?/ What's the Unknown Part?	Back to Batoche Family Fun Day A Class-full of Projects

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Jan.	Geometry	<p>2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes</p> <p>2-D shapes and 3-D solids can be transformed in many ways and analyzed for change</p>	<p>Geometry Cluster 1 2-D Shapes</p> <p>1.Sorting 2-D Shapes 2.Congruent 2-D Shapes 3.Exploring 2-D Shapes 4.Symmetry in 2-D Shapes 5.Consolidation</p>	<p>2-D Shapes Card 1: Visualizing Shapes/Comparing Shapes</p>	<p>I Spy Awesome Buildings</p> <p>Sharing Our Stories</p>
Feb.	Patterning and Algebra	<p>Patterns and relations can be represented with symbols, equations, and expressions</p>	<p>Patterning and Algebra Cluster 3 Equality and Inequality</p> <p>16.Equal and Unequal Sets 17.Equal or Not Equal? 18.Exploring Number Sentences 19.Exploring Number Sentences for Larger Numbers 20.Exploring Properties 21.Missing Numbers 22.Consolidation</p>	<p>Equality and Inequality Card 3A: Equal or Not Equal?/How Many Ways?</p> <p>Card 3B: Which One Doesn't Belong?/What's Missing?</p>	<p>Nutty and Wolfy (Grade 1)</p> <p>Kokum's Bannock</p>
Feb.	Number	<p>Quantities and numbers can be added and subtracted to tell how many and how much</p>	<p>Number Cluster 6 Conceptualizing Addition and Subtraction</p> <p>27.Exploring Properties 28.Solving Problems 1 29.Solving Problems 2 30.Solving Problems 3 31.Solving Problems 4 32.Consolidation</p>	<p>Conceptualizing Addition and Subtraction Card 6: What Math Do You See?/What Could the Story Be?</p>	<p>Array's Bakery</p> <p>Marbles, Alleys, Mibs, and Guli!</p> <p>The Great Dogsled Race</p>

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Mar.	Geometry	2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes	Geometry Cluster 2 Geometric Relationships 6.Making Shapes 7.Visualizing Shapes 8.Creating Pictures and Designs 9.Covering Outlines 10.Consolidation	Geometric Relationships Card 2A: Fill me in!/Make Me a Picture Card 2B: Name the Solid/Draw the Shape	I Spy Awesome Buildings Sharing Our Stories
Mar.	Measurement	Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared	Measurement Cluster 3 Time 10.Measuring Time 11. Measuring the Passage of Time 12.Consolidation	Time Card 3A: Hula Hoop Clock/ Calendar Questions Card 3B: Monthly Mix-Up	
Apr.	Number	Financial Literacy Quantities and numbers can be added and subtracted to tell how many and how much	Number Cluster 9 Financial Literacy 44.Estimating Money 45.Earning Money 46.Spending Money 47.Money up to \$200 48.Saving Regularly 49.Consolidation	Financial Literacy Card 9: Collections of Coins/Showing Money in Different Ways	The Money Jar
Apr.	Number	Quantities and numbers can be grouped by and partitioned into units to determine how many and much	Number Cluster 8 Early Multiplicative Thinking 38.Making Equal Shares 39.Making Equal Groups 40.Exploring Repeated Addition 41.Repeated Addition and Multiplication 42.Repeated Subtraction and Division 43.Consolidation	Early Multiplicative Thinking Card 8A: Counting Equal Groups to Find How Many/I Spy Card 8B: How Many Blocks?/How Many Ways?	Array's Bakery Marbles, Alleys, Mibs, and Guli!

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Apr.	Number	Quantities and numbers can be grouped into equal-sized units	Revisit Number Cluster 3 Grouping and Place Value 12. Building Numbers to 100 13. Making a Number Line 14. Grouping to Count 15. Building Numbers to 200 16. Consolidation	Grouping and Place Value Card 3A: Adding Ten/Taking Away Ten Card 3B: Thinking Tens/Describe Me	A Class-full of Projects
May	Data Management Probability and Chance	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	Data Management and Probability Cluster 1 Data Management 1. Sorting Data by 2 Attributes 2. Interpreting Graphs 1 3. Interpreting Graphs 2 4. Creating a Survey 5. Making Graphs 1 6. Making Graphs 2 7. Identifying the Mode 8. Consolidation Cluster 2 Probability and Chance 9. Likelihood of Events 10. Conducting Experiments 11. Consolidation	Data Management Card 1: Conducting Surveys/Reading and Interpreting Graphs Probability and Chance Card 2: What's in the Bag?/Word of the Day	Graph It! (Grade 1) Big Buddy Days Marsh Watch

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May	Number	Quantities and numbers can be grouped by or partitioned into equal-sized units	Number Cluster 4 Early Fractional Thinking 17.Equal Parts 18.Comparing Fractions 1 19.Comparing Fractions 2 20.Regrouping Fractional Parts 21.Partitioning Sets 22.Consolidation	Early Fractional Thinking Card 4A: Equal Parts from Home/Modelling Fraction Amounts Card 4B: Regrouping Equal Parts/Naming Equal Parts	The Best Birthday
May	Number	Quantities and numbers can be added and subtracted to tell how many and how much	Revisit Number Cluster 6 Conceptualizing Addition and Subtraction 28.Solving Problems 1 29.Solving Problems 2 30.Solving Problems 3 31.Solving Problems 4 32.Consolidation Revisit Number Cluster 7 Operational Fluency 33.Using Doubles 34.Fluency with 20 35.Mastering Addition and Subtraction Facts 36.Multi-Digit Fluency 37.Consolidation	Conceptualizing Addition and Subtraction Card 6: What Math Do You See?/What Could the Story Be? Operational Fluency Card 7A: Doubles and Near Doubles/I Have... I Need... Card 7B: Hungry Bird/Make 10 Sequences	The Money Jar Marbles, Alleys, Mibs, and Guli! The Great Dogsled Race

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June	Geometry	Objects can be located in space and viewed from multiple perspectives	Geometry Cluster 3 Location and Movement 11. Reading Maps 12. Drawing a Map 13. Perspective Taking 14. Consolidation Cluster 4 Coding 15. Coding Concurrent Events 16. Effects of Altering Code 17. Writing Code to Solve Problems 18. Consolidation	Location and Movement Card 3A: Our Design/Treasure Map Card 3B: Crazy Creatures/ Perspective Matching Game Coding Card 4: Code of the Day/Wandering Animals	Robo