



## Grade 1 Sample Long-Range Pathway – Option 2

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 Idea	Conceptual Threads	Activity Kit	Grade 1 Mathology Little Books	Practice and Learning Centres
<b>Sept.</b>	Patterning and Algebra	Regularity and repetition form patterns that can be generalized and predicted	Identifying, sorting, and classifying attributes and patterns mathematically  Identifying, reproducing, extending, and creating patterns that repeat	Patterning and Algebra Cluster 1 Investigating Repeating Patterns Activities 1–5  Cluster 2 Creating patterns Activities 6–9	Midnight and Snowfall	Making repeating patterns
<b>Sept.</b>	Number	Numbers tell us how many and how much	Applying the principles of counting  Recognizing and writing numerals	Number Cluster 1 Counting Activities 1–5	On Safari!  A Family Cookout  Paddling the River	Counting and subitizing practice from K
<b>Oct.</b>	Number	Numbers tell us how many and how much	Recognizing quantities by subitizing  Estimating quantities and numbers	Number Cluster 2 Spatial Reasoning Activities 6–8	Paddling the River	Counting and subitizing practice, including skip-counting

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<b>Oct.</b>	Number	Numbers are related in many ways	Comparing and ordering quantities	Number Cluster 3 Comparing and Ordering Activities 9–12	Cats and Kittens!	Counting and subitizing practice, including skip-counting  Comparing and ordering numbers and quantities
<b>Nov.</b>	Number	Numbers tell us how many and how much	Applying the principles of counting  Recognizing and writing numerals	Number Cluster 4 Skip-counting Activities 13–16	How Many is Too Many?	Counting and subitizing practice, including skip-counting
<b>Nov.</b>	Number	Numbers are related in many ways	Decomposing wholes into parts and composing wholes from parts	Number Cluster 5 Composing and Decomposing Activities 17–23	Paddling the River  That's 10!	Counting and subitizing practice, including skip-counting  Comparing and ordering numbers and quantities
<b>Dec.</b>	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  Exploring 2-D shapes by applying and visualizing transformations	Geometry Cluster 1 2-D Shapes Activities 1–6	The Tailor Shop  What Was Here?	Sorting Activities  Creating repeating patterns

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<b>Dec.</b>	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>Investigating geometric attributes and properties of 3-D shapes</p> <p>Exploring 3-D solids by applying and visualizing transformations</p>	<p>Geometry Cluster 2 3-D Solids Activities 7–10</p>	<p>What Was Here?</p>	<p>2-D and 3-D sorting and building activities</p> <p>Creating and translating repeating patterns</p>
<b>Jan.</b>	Measurement	<p>Many things in our world have attributes that can be measured and compared</p>	<p>Understanding attributes that can be measured</p> <p>Directly and Indirectly comparing and ordering objects with the same measurable attribute</p>	<p>Measurement Cluster 1 Comparing Objects Activities 1–6</p>	<p>The Amazing Seed</p>	<p>Sorting and building with 2-D shapes and 3-D solids</p> <p>Creating, extending, and repeating patterns</p>

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<b>Jan.</b>	Measurement	Assigning a unit to a continuous attribute allows us to measure and make comparisons	Selecting and using non-standard units to estimate, measure and make comparisons	Measurement Cluster 2 Using Uniform Units Activities 7–15  Cluster 3 Time and Temperature Activities 16–21*  *Ontario only	Animal Measures	Sorting and building with 2-D shapes and 3-D solids  Creating, extending, and repeating patterns  Measurement through direct comparison and iteration (repeating) of uniform non-standard unit  Balance scale activities to explore equality and inequality  Replicating and creating composite 2-D shapes and 3-D solids
<b>Feb.</b>	Number	Quantities and numbers can be added and subtracted to tell how many and how much	Developing the conceptual meaning of addition and subtraction	Number Cluster 7 Activities 28–30  (Change Problems)	Hockey Time!  Buy 1 – Get 1  Canada’s Oldest Sport  Cats and Kittens!	Counting and subitizing practice, including skip-counting  Comparing and ordering numbers and quantities  Composing and Decomposing

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<b>Feb.</b>	Patterning and Algebra	Patterns and relations can be represented with symbols, equations, and expressions	<p>Understanding equality and inequality, building on generalized properties of numbers and operations</p> <p>Using symbols, unknowns, and variables to represent mathematical relations</p>	Patterning and Algebra Cluster 3 Equality and Inequality Activities 10–13	Nutty and Wolfy	<p>Sorting and building with 2-D shapes and 3-D solids</p> <p>Creating, extending, and repeating patterns</p> <p>Measurement through direct comparison and repeating iteration of uniform non-standard unit</p> <p>Balance scale activities to explore equality and inequality</p>
<b>Mar.</b>	Number	Quantities and numbers can be added and subtracted to tell how many and how much	<p>Developing fluency of addition and subtraction computation</p> <p>Developing the conceptual meaning of addition and subtraction</p>	<p>Number Cluster 7 Operational Fluency Activities 31–35</p> <p>(Join/separate and part-part-whole problem types)</p>	<p>Hockey Time!</p> <p>Buy 1 – Get 1</p> <p>Canada’s Oldest Sport</p> <p>Cats and Kittens!</p>	<p>Counting and subitizing practice, including skip-counting</p> <p>Comparing and ordering numbers and quantities</p> <p>Composing and Decomposing</p> <p>Creating and solving pictorial story problems using addition and subtraction</p>
<b>Mar.</b>	Number	<p>Financial Literacy*</p> <p>*Ontario and BC only</p>		Number Cluster 8 Activity 36–40		

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<b>Apr.</b>	Number	Quantities and numbers can be added and subtracted to tell how many and how much	<p>Developing fluency of addition and subtraction computation</p> <p>Developing the conceptual meaning of addition and subtraction</p> <p>(Consider a focus on subtraction)</p>	<p>Revisit Number Cluster 7 Operational Fluency Activities 28–35</p> <p>Number Talks For mental math fluency and basic fact recall</p> <p>Problem-Solving with all problem types for addition and subtraction</p>	<p>On Safari!</p> <p>Hockey Time!</p> <p>Buy 1 – Get 1</p> <p>Canada's Oldest Sport</p> <p>Cats and Kittens!</p>	Creating and solving pictorial story problems using addition and subtraction
<b>May</b>	Number	Quantities and numbers can be grouped by or partitioned into equal-sized units	<p>Unitizing quantities into ones, tens, hundreds (place-value concepts)</p> <p>Unitizing quantities and comparing units to the whole</p>	Number Cluster 6 Early Place Value Activities 24–27	At the Corn Farm	<p>Counting and subitizing practice, including skip-counting</p> <p>Composing and Decomposing</p> <p>Comparing and ordering numbers and quantities</p> <p>Creating and solving pictorial story problems using addition and subtraction</p>

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<b>May</b>	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>Investigating 2-D shapes, 3-D solids, and their attributes through composition and decomposition</p> <p>Exploring symmetry to analyze 2-D shapes and 3-D solids*</p> <p>*Ontario only</p>	<p>Geometry Cluster 3 Geometric Relationships Activities 11–15</p> <p>Geometry Cluster 4 Symmetry Activities 16–18</p>	<p>What Was Here?</p> <p>The Tailor Shop</p>	<p>Sorting and building with 2-D shapes and 3-D solids</p> <p>Creating, extending, and repeating patterns</p> <p>Measurement through direct comparison and repeating iteration of uniform non-standard unit</p> <p>Balance scale activities to explore equality and inequality</p>
<b>June</b>	Geometry	<p>Objects can be located in space and viewed from multiple perspectives*</p> <p>*Ontario only</p>	<p>Locating and mapping objects in space</p> <p>Viewing and representing objects from multiple perspectives</p>	<p>Geometry Cluster 5 Location and Measurement Activities 19–21</p>	<p>Memory Book</p>	
<b>June</b>	Data Management and Probability*	<p>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</p>	<p>Formulating questions to learn about groups, collections and events</p> <p>Collecting data and organizing it into categories</p> <p>Creating graphical displays of collected data</p> <p>Using the language of chance to describe and predict events</p>	<p>Data Management Cluster 1 Activities 1–4</p> <p>Cluster 2 Probability and Chance Activities 5–6</p>	<p>Graph It!</p>	<p>2-D and 3-D sorting and building activities</p> <p>Creating and translating repeating patterns</p>
<b>June</b>	Revisit difficult concepts			Revisit activities from each strand		