



Grade 1 Sample Long-Range Pathway – Option 1

In the examples below, the suggested learning is cyclical, allowing concepts to be revisited throughout the year. The Number Strand alternates with another strand every month. Students can then make connections with concepts in another, more prominent strand. This suggested pathway also allows students whose strengths are in the visual-spatial areas of math to have more opportunities to be engaged.

	Strand	Big Idea	Conceptual Threads	Activity Kit	Grade 1 Mathology Little Books	Practice and Learning Centres
Sept.	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 2-D shapes</p> <p>Exploring 2-D shapes by applying and visualizing transformations</p>	<p>Geometry Cluster 1</p> <p>2-D Shapes Activities 1–6</p>	<p>The Tailor Shop</p> <p>What Was Here?</p>	<p>Sorting Activities</p>
Sept.	Number	<p>Numbers tell us how many and how much</p>	<p>Applying the principles of counting</p> <p>Recognizing and writing numerals</p>	<p>Number Cluster 1</p> <p>Counting Activities 1–5</p>	<p>On Safari!</p> <p>A Family Cookout</p> <p>Paddling the River</p>	<p>Counting and subitizing practice from K</p>

	Strand	Big Idea	Conceptual Threads	Activity Kit	Grade 1 Mathology Little Books	Practice and Learning Centres
Oct.	Patterning and Algebra	Regularity and repetition form patterns that can be generalized and predicted mathematically	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
Oct.	Number	Numbers tell us how many and how much Numbers are related in many ways	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
Nov.	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 3-D shapes Exploring 3-D solids by applying and visualizing transformations	Geometry Cluster 2 3-D Solids Activities 7–10	What Was Here?	2-D and 3-D sorting and building activities Creating and translating repeating patterns
Nov.	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

	Strand	Big Idea	Conceptual Threads	Activity Kit	Grade 1 Mathology Little Books	Practice and Learning Centres
Dec.	Data Management and Probability* *Ontario and BC only	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 Collecting data and organizing it into categories Creating graphical displays of collected data Using the language of chance to describe and predict events	Data Management Cluster 1 Activities 1–4 Cluster 2 Probability and Chance Activities 5–6	Graph It!	2-D and 3-D sorting and building activities Creating and translating repeating patterns
Dec.	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
Jan.	Measurement	Many things in our world have attributes that can be measured and compared	Understanding attributes that can be measured Directly and indirectly comparing and ordering objects with the same measurable attribute	Measurement Cluster 1 Comparing Objects Activities 1–6	The Amazing Seed	Sorting and building with 2-D shapes and 3-D solids Creating, extending, and repeating patterns
Jan.	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

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Feb.	Patterning and Algebra	Patterns and relations can be represented with symbols, equations, and expressions	Understanding equality and inequality, building on generalized properties of numbers and operations Using symbols, unknowns, and variables to represent mathematical relations	Patterning and Algebra Cluster 3 Equality and Inequality Activities 10–13	Nutty and Wolfy	Sorting and building with 2-D shapes and 3-D solids Creating, extending, and repeating patterns Measurement through direct comparison and repeating iteration of uniform non-standard unit
Feb.	Number	Quantities and numbers can be added and subtracted to tell how many and how much	Developing conceptual meaning of addition and subtraction	Number Cluster 7 Operational Fluency 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
Mar.	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 2-D shapes and 3-D solids, and their attributes through composition and decomposition Exploring symmetry to analyze 2-D shapes and 3-D solids* *Ontario only	Geometry Cluster 3 Geometric Relationships Activities 11–15 Geometry Cluster 3 Geometric Relationships Activities 11–15 Geometry Cluster 4 Symmetry Activities 16–18	What Was Here? The Tailor Shop	Sorting and building with 2-D shapes and 3-D solids Creating, extending, and repeating patterns Measurement through direct comparison and repeating iteration of uniform non-standard unit Balance scale activities to explore equality and inequality

	Strand	Big Idea	Conceptual Threads	Activity Kit	Grade 1 Mathology Little Books	Practice and Learning Centres
Mar.	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 change type story problems using addition and subtraction</p>
Apr.	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	<p>Measurement Cluster 2 Using Uniform Units Activities 7–15</p> <p>Cluster 3 Time and temperature Activities 16–21*</p> <p>*Ontario only</p>	Animal Measures	<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 (repeating) of uniform non-standard unit</p> <p>Balance scale activities to explore equality and inequality</p> <p>Replicating and creating composite 2-D shapes and 3-D solids</p>

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Apr.	Number	Quantities and numbers can be grouped by or partitioned into equal-sized units	Unitizing quantities into ones, tens, hundreds (place value concepts) Unitizing quantities and comparing units to the whole	Number Cluster 6 Early Place Value Activities 24–27	At the Corn Farm	Counting and subitizing practice, including skip-counting Composing and decomposing Creating and solving pictorial story problems using addition and subtraction
May	Number	Financial Literacy* *Ontario and BC only		Number Cluster 8 Activity 36–40		
May	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 (Consider a focus on subtraction)	Number Revisit Cluster 7 Operational Fluency Activities 28–35 Number Talks For mental math fluency and basic fact recall Problem-Solving with all problem types for addition and subtraction	On Safari! Hockey Time! Buy 1 – Get 1 Canada’s Oldest Sport Cats and Kittens!	Creating and solving pictorial story problems using addition and subtraction
May	Geometry	Objects can be located in space and viewed from multiple perspectives* *Ontario only	Locating and mapping objects in space Viewing and representing objects from multiple perspectives	Geometry Cluster 5 Location and Measurement Activities 19–21	Memory Book	
June	Revisit difficult concepts			Revisit activities from each strand		