

Grade 1 Ontario Mathology.ca 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 Idea | Mathology Activity Lessons | Grade 1 Mathology Little Books |
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| Sept. | Patterning and Algebra | Regularity and repetition form patterns that can be generalized and predicted | Patterning and Algebra  Cluster 1 Investigating Repeating Patterns  1.Repeating the Core  2.Representing Patterns  3.Predicting Elements  4.Finding Patterns  5.Consolidation  Cluster 2 Creating Patterns  6.Extending Patterns  7.Translating Patterns  8.Errors and Missing Elements  9.Consolidation | Midnight and Snowfall |
| Sept. | Number | Numbers tell us how many and how much | Number Cluster 1 Counting  1.Counting to 20  2.Counting to 50  3.Counting On and Back  4.Ordinal Numbers  5.Consolidation | On Safari!  A Family Cookout  Paddling the River |
| Oct. | Number | Numbers tell us how many and how much | Number Cluster 2 Spatial Reasoning  6. Subitizing to 10  7.Estimating Quantities  8.Consolidation | Paddling the River |
| Oct. | Number | Numbers are related in many ways | Number Cluster 3 Comparing and Ordering  9. Comparing Sets Concretely  10.Comparing Sets Pictorially  11.Comparing Numbers to 50  12.Consolidation | Cats and Kittens! |
| Nov. | Number | Numbers tell us how many and how much | Number Cluster 4 Skip-Counting  13.Skip-Counting Forward  14.Skip-Counting with Leftovers  15.Skip-Counting Backward  16.Consolidation | How Many is Too Many? |
| Nov. | Number | Numbers are related in many ways | Number Cluster 5 Composing and Decomposing  17.Decomposing 10  18.Numbers to 10  19.Numbers to 20  20.Decomposing 50  21.Money Amounts  22.Equal Groups  23.Equal Parts  24.Sharing Equally  25.Comparing and Ordering Unit Fractions  26.Consolidation | Paddling the River  That’s 10! |
| Dec. | 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 | Geometry Cluster 1 2-D Shapes  1.Sorting Shapes  2.Identifying Triangles  3.Identifying Rectangles  4.Visualizing Shapes  5.Sorting Rules  6.Consolidation | The Tailor Shop  What Was Here? |
| Dec. | 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 | Geometry Cluster 2 3-D Solids  7.Exploring 3-D Solids  8.Faces of Solids  9.Sorting 3-D Solids  10.Identify the Sorting Rule  11.Constructing Solids and Skeletons  12.Consolidation | What Was Here? |
| Jan. | Measurement | Many things in our world have attributes that can be measured and compared | Measurement Cluster 1 Comparing Objects  1.Identifying Attributes  2.Comparing Length  3.Matching Lengths  4.Comparing Mass  5.Comparing Capacity  6.Making Comparisons  7.Comparing Area  8. Consolidation | The Amazing Seed |
| Jan. | Measurement | Assigning a unit to a continuous attribute allows us to measure and make comparisons | Measurement Cluster 2 Time  9. Relating to Seasons  10.The Calendar  11. Consolidation | Animal Measures |
| Feb. | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Number Cluster 7 Operational Fluency  31.More or Less  32.Complements of 10  33.Adding to 20  34.Subtracting to 50 | Hockey Time!  Buy 1 – Get 1  Canada’s Oldest Sport  Cats and Kittens! |
| Feb. | Patterning and Algebra | Patterns and relations can be represented with symbols, equations, and expressions | Patterning and Algebra Cluster 3 Equality and Inequality  10.Exploring Sets  11.Making Equal Sets  12.Using Symbols  13.Consolidation | Nutty and Wolfy |
| Mar. | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Number Cluster 7 Operational Fluency  35.The Number Line  36.Doubles  37.Part-Part-Whole  38.Exploring Properties  39.Solving Story Problems  40. Adding and Subtracting to 50  41.Consolidation | Hockey Time!  Buy 1 – Get 1  Canada’s Oldest Sport  Cats and Kittens! |
| Mar. | Number | Numbers tell us how many and how much | Number Cluster 8 Financial Literacy  42.Values of Coins  43.Values of Bills  44.Counting Collections  45.Fair Trades  46.Wants and Needs  47.Consolidation |  |
| **Apr.** | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Revisit Number Cluster 7 Operational Fluency  31.More or Less  32.Complements of 10  33.Adding to 20  34.Subtracting to 50  35.The Number Line  36.Doubles  37.Part-Part-Whole  38.Exploring Properties  39.Solving Story Problems  40. Adding and Subtracting to 50  41.Consolidation | On Safari!  Hockey Time!  Buy 1 – Get 1  Canada’s Oldest Sport  Cats and Kittens! |
| May | Number | Quantities and numbers can be grouped by or partitioned into equal-sized units | Number Cluster 6 Early Place Value  27.Tens and Ones  28.Building and Naming Numbers  29.Different Representations  30.Consolidation | At the Corn Farm |
| May | 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 | Geometry Cluster 3 Symmetry  13.Finding Lines of Symmetry  14.Creating Symmetrical Designs  15.Bulding Symmetrical Solids  16.Consolidation | What Was Here?  The Tailor Shop |
| June | Geometry | Objects can be located in space and viewed from multiple perspectives\* | Geometry Cluster 4 Location and Movement  17.Perspective Taking  18.Mapping  19.Exploring Coding  20.Coding on a Grid  21.Number Codes  22.Consolidation | Memory Book |
| June | 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 | Data Management and Probability Cluster 1 Data Management  1.Sorting Data  2.Interpreting Graphs  3.Making Concrete Graphs  4.Making Pictographs  5.Consolidation  Cluster 2 Probability and Chance  6.Likelihood of Events  7.Making and Testing Predictions  8.Consolidation | Graph It! |