

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 |
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| 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 |
| 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 |
| 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 |
| 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 |
| 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 | Geometry Cluster 1 2-D Shapes  1.Sorting 2-D Shapes  2.Congruent 2-D Shapes  3.Exploring 2-D Shapes  4.Symmetry in 2-D Shapes  5.Consolidation | 2-D Shapes  Card 1:  Visualizing Shapes/Comparing Shapes | I Spy Awesome Buildings  Sharing Our Stories |
| Feb. | Patterning and Algebra | Patterns and relations can be represented with symbols, equations, and expressions | Patterning and Algebra Cluster 3  Equality and Inequality  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 | Equality and Inequality  Card 3A:  Equal or Not Equal?/How Many Ways?  Card 3B:  Which One Doesn’t Belong?/What’s Missing? | Nutty and Wolfy  (Grade 1)  Kokum’s Bannock |
| Feb. | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Number Cluster 6  Conceptualizing Addition and Subtraction  27.Exploring Properties  28.Solving Problems 1  29.Solving Problems 2  30.Solving Problems 3  31.Solving Problems 4  32.Consolidation | Conceptualizing  Addition and Subtraction  Card 6:  What Math Do You See?/What Could the Story Be? | Array’s Bakery  Marbles, Alleys, Mibs, and Guli!  The Great Dogsled Race |
| 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! |
| 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 |
| 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 |
| 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 |