

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 AlgebraCluster 1 Repeating Patterns1.Exploring Patterns2.Extending and Predicting3.Errors and Missing Elements4.Combining Attributes5.Consolidation | Repeating PatternsCard 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 Tens2.Skip-Counting Forward3.Skip-Counting Flexibly4.Skip-Counting Backward5.Consolidation | Skip-CountingCard 1A:Skip-Counting on a Hundred Chart/Skip-Counting from Any NumberCard 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 2Increasing /Decreasing Patterns6.Increasing Patterns 17.Increasing Patterns 28.Decreasing Patterns9.Extending Patterns10.Reproducing Patterns11.Creating Patterns12.Errors and Missing Terms13.Solving Problems14.Patterns in Number Relationships 15.Consolidation | Increasing/Decreasing PatternsCard 2A:How Many Can We Make?/Error HuntCard 2B:Making Increasing Patterns/Making Decreasing Patterns | Pattern QuestThe Best Surprise |
| Oct. | Number | Numbers are related in many ways | Number Cluster 2Number Relationships 16.Comparing Quantities7.Ordering Quantities8.Comparing and Ordering Numbers to 2009.Odd and Even Numbers10.Estimating with Benchmarks11.Consolidation | Number Relationships 1 Card 2A:Show Me in Different Ways/Guess My NumberCard 2B:Math Commander/Building an Open Number Line | What Would You Rather?Back to BatocheThe Great Dogsled Race |
| Oct.  | Number | Quantities and Numbers can be partitioned into equal-sized units | Number Cluster 3Grouping and Place Value12.Building Numbers to 10013.Making a Number Line14.Grouping to Count15.Building Numbers to 20016.Consolidation | Grouping and Place ValueCard 3A:Adding Ten/Taking Away TenCard 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 Fluency33.Using Doubles34.Fluency with 2035.Mastering Addition and Subtraction Facts36.Multi-Digit Fluency37.Consolidation | Operational FluencyCard 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 1Using Non-Standard Units1.Measuring Length 12.Measuring Length 23.Measuring Distance Around4.Consolidation | Using Non-Standard UnitsCard 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 2Using Standard Units5.Benchmarks and Estimation6.The Metre7.The Centimetre8.Metres or Centimetres?9.Consolidation | Using Standard UnitsCard 2: What am I?/Which unit? | Animal Measures (Grade 1)The Discovery |
| Jan. | Number | Numbers are related in many ways | Number Cluster 5Number Relationships 223.Benchmarks on a Number Line24.Jumping on the Number Line25.Composing and Decomposing Numbers to 20026.Consolidation | Number Relationships 2 Card 5A:Which Ten Is Nearer?/Building NumbersCard 5B:How Many Ways?/What’s the Unknown Part? | Back to BatocheFamily Fun DayA Class-full of Projects |
| Jan. | Geometry | 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes2-D shapes and 3-D solids can be transformed in many ways and analyzed for change | Geometry Cluster 1 2-D Shapes1.Sorting 2-D Shapes2.Congruent 2-D Shapes3.Exploring 2-D Shapes4.Symmetry in 2-D Shapes5.Consolidation | 2-D ShapesCard 1: Visualizing Shapes/Comparing Shapes | I Spy Awesome BuildingsSharing Our Stories |
| Feb. | Patterning and Algebra | Patterns and relations can be represented with symbols, equations, and expressions | Patterning and Algebra Cluster 3Equality and Inequality16.Equal and Unequal Sets17.Equal or Not Equal?18.Exploring Number Sentences19.Exploring Number Sentences for Larger Numbers20.Exploring Properties21.Missing Numbers22.Consolidation | Equality and InequalityCard 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 6Conceptualizing Addition and Subtraction27.Exploring Properties28.Solving Problems 129.Solving Problems 230.Solving Problems 331.Solving Problems 432.Consolidation | ConceptualizingAddition and SubtractionCard 6:What Math Do You See?/What Could the Story Be? | Array’s BakeryMarbles, 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 2Geometric Relationships 6.Making Shapes7.Visualizing Shapes8.Creating Pictures and Designs9.Covering Outlines10.Consolidation | Geometric RelationshipsCard 2A: Fill me in!/Make Me a PictureCard 2B: Name the Solid/Draw the Shape | I Spy Awesome BuildingsSharing Our Stories |
| Mar. | Measurement | Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared | Measurement Cluster 3Time 10.Measuring Time11. Measuring the Passage of Time12.Consolidation  | TimeCard 3A: Hula Hoop Clock/Calendar QuestionsCard 3B: Monthly Mix-Up  |  |
| Apr. | Number  | Financial LiteracyQuantities and numbers can be added and subtracted to tell how many and how much | Number Cluster 9 Financial Literacy44.Estimating Money45.Earning Money46.Spending Money47.Money up to $20048.Saving Regularly49.Consolidation | Financial LiteracyCard 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 8Early Multiplicative Thinking38.Making Equal Shares39.Making Equal Groups40.Exploring Repeated Addition41.Repeated Addition and Multiplication42.Repeated Subtraction and Division43.Consolidation | Early Multiplicative ThinkingCard 8A:Counting Equal Groups to Find How Many/I SpyCard 8B:How Many Blocks?/How Many Ways? | Array’s BakeryMarbles, Alleys, Mibs, and Guli! |
| Apr. | Number | Quantities and numbers can be grouped into equal-sized units | Revisit Number Cluster 3 Grouping and Place Value12.Building Numbers to 10013.Making a Number Line14.Grouping to Count15.Building Numbers to 20016.Consolidation | Grouping and Place ValueCard 3A:Adding Ten/Taking Away TenCard 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 Management1.Sorting Data by 2 Attributes2.Interpreting Graphs 13.Interpreting Graphs 24.Creating a Survey5.Making Graphs 16.Making Graphs 27.Identifying the Mode8.ConsolidationCluster 2 Probability and Chance9.Likelihood of Events10.Conducting Experiments11.Consolidation | Data ManagementCard 1:Conducting Surveys/Reading and Interpreting GraphsProbability and ChanceCard 2: What’s in the Bag?/Word of the Day | Graph It! (Grade 1)Big Buddy DaysMarsh Watch |
| May | Number | Quantities and numbers can be grouped by or partitioned into equal-sized units  | Number Cluster 4Early Fractional Thinking17.Equal Parts18.Comparing Fractions 119.Comparing Fractions 220.Regrouping Fractional Parts21.Partitioning Sets22.Consolidation | Early Fractional ThinkingCard 4A:Equal Parts from Home/Modelling Fraction AmountsCard 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 129.Solving Problems 230.Solving Problems 331.Solving Problems 432.ConsolidationRevisit Number Cluster 7Operational Fluency33.Using Doubles34.Fluency with 2035.Mastering Addition and Subtraction Facts36.Multi-Digit Fluency37.Consolidation | ConceptualizingAddition and SubtractionCard 6:What Math Do You See?/What Could the Story Be?Operational FluencyCard 7A:Doubles and Near Doubles/I Have… I Need…Card 7B:Hungry Bird/Make 10 Sequences | The Money JarMarbles, Alleys, Mibs, and Guli!The Great Dogsled Race |
| June  | Geometry  | Objects can be located in space and viewed from multiple perspectives | Geometry Cluster 3Location and Movement11.Reading Maps12.Drawing a Map13.Perspective Taking14.ConsolidationCluster 4 Coding15.Coding Concurrent Events16.Effects of Altering Code17.Writing Code to Solve Problems18.Consolidation | Location and MovementCard 3A: Our Design/Treasure MapCard 3B: Crazy Creatures/Perspective Matching GameCodingCard 4: Code of the Day/Wandering Animals | Robo |