

Grade 3 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 Ideas | Mathology Lessons | 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 Unit 2 Repeating Patterns10.Sorting with Attributes11.Identifying and Extending Patterns12.Creating Patterns13.Consolidation |  |
| Sept. | Number | Numbers tell us how many and how much | Number Unit 1 Counting 1.Numbers All Around Us2.Counting to 10003.Skip-Counting Forward and Backward4.Consolidation | How Numbers Work |
| Oct. | Patterning and Algebra | Regularity and repetition form patterns that can be generalized and predicted | Patterning and Algebra Unit 1 Patterns and Expressions1.Describing and Extending Patterns2.Representing Patterns3.Creating Patterns4.Identifying Errors and Missing Terms5.Solving Problems6.Exploring Multiplicative Patterns7.Patterns in Whole Numbers8.Equivalent Expressions9.Consolidation | Namir’s Marvelous Masterpieces |
| Oct. | Number | Numbers are related in many ways | Number Unit 2 Number Relationships5.Estimating Quantities6.Composing and Decomposing Quantities7.Comparing and Ordering Quantities8.Consolidation | Fantastic Journeys |
| Nov. | Number | Quantities and numbers can be partitioned into equal-sized units | Number Unit 3 Place Value9.Building Numbers10.Representing Numbers in Different Ways11.What’s the Number?12.Rounding Numbers13.Consolidation | Finding BusterHow Numbers Work |
| Nov. | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Number Unit 5 Addition and Subtraction19.Modelling Addition and Subtraction20.Estimating Sums and Differences22.Using Mental Math to Add and Subtract23.Creating and Solving Problems24.Creating and Solving Problems with Larger Numbers25.Consolidation | The Street PartyPlanting Seeds |
| Dec. | Measurement | Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared | Measurement Unit 3 Area, Mass, and Capacity9.Measuring Area Using Non-Standard Units10. Measuring Area Using Standard Units11.Measuring Mass Using Non-Standard Units12.Measuring Capacity Using Non-Standard Units13.Consolidation | The Bunny ChallengeMeasurements About You! |
| Dec. | Measurement | Assigning a unit to a continuous attribute allows us to measure and make comparisons | Measurement Unit 1 Length, Perimeter, and Time1.Estimating Length2.Relating Millimetres, Centimetres, Metres, and Kilometres3.Measuring Length4.Introducing Perimeter5.Measuring Perimeter6.How Many Can You Make?7.Telling Time8.Consolidation | The Bunny ChallengeMeasurements About You |
| 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 Unit 1 2-D Shapes1.Sorting Polygons2.Exploring Congruency3.What’s the Sorting Rule?4.Composing Shapes5.ConsolidationUnit 4 Angles18.Investigating Angles19.Comparing Angles20.Consolidation | Gallery Tour |
| Feb. | Geometry | 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes | Geometry Unit 2 3-D Solids6.Exploring Geometric Attributes of Solids7.Building Solids8.Constructing Skeletons9.Working with Nets10.Consolidation | Wonderful Buildings |
| Feb | Number  | Quantities and numbers can be added and subtracted to tell how many and how much | Number Unit 7 Financial Literacy35.Estimating and Counting Money36.Adding and Subtracting Money Amounts37.Purchasing and Making Change38.Consolidation | The Street Party |
| March | Number  | Quantities and numbers can be grouped by and partitioned into units to determine how many and much | Number Unit 6Multiplication and Division26.Exploring Multiplication27.Exploring Division28.Relating Multiplication and Division29.Properties of Multiplication30.Multiplying and Dividing Larger Numbers31.Creating and Solving Problems32.Building Fluency: The Games Room33.Investigating Ratios34.Consolidation | Planting SeedsSports Camp |
| April | 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 ProbabilityUnit 1 Data Management 1.Sorting People and Things2.Interpreting Graphs3.Collecting and Organizing Data4.Drawing Graphs5.Identifying the Mode and the Mean6.ConsolidationUnit 2 Probability and Chance7.Making Predictions8.Describing the Likelihood of Outcomes9.Who’s Likely to Win?10.Consolidation | Welcome to the Nature ParkChance |
| May | Number  | Quantities and numbers can be grouped by or partitioned into equal-sized units  | Number Unit 4 Fractions14.Exploring Equal Parts15.Comparing Fractions 116.Comparing Fractions 217.Partitioning Sets18.Consolidation | Hockey Homework |
| May | Geometry  | Objects can be located in space and viewed from multiple perspectives | Geometry Unit 3 Mapping and Coding11.Describing Location12.Exploring Movements13.Describing Movement on a Map14. Coding on a Grid15.Exploring Loops in Coding16.Altering Code17.Consolidation | Finding BusterRobo (Grade 2) |
| June | Review |  | Review |  |