

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 Patterns  10.Sorting with Attributes  11.Identifying and Extending Patterns  12.Creating Patterns  13.Consolidation |  |
| Sept. | Number | Numbers tell us how many and how much | Number Unit 1 Counting  1.Numbers All Around Us  2.Counting to 1000  3.Skip-Counting Forward and Backward  4.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 Expressions  1.Describing and Extending Patterns  2.Representing Patterns  3.Creating Patterns  4.Identifying Errors and Missing Terms  5.Solving Problems  6.Exploring Multiplicative Patterns  7.Patterns in Whole Numbers  8.Equivalent Expressions  9.Consolidation | Namir’s Marvelous Masterpieces |
| Oct. | Number | Numbers are related in many ways | Number Unit 2 Number Relationships  5.Estimating Quantities  6.Composing and Decomposing Quantities  7.Comparing and Ordering Quantities  8.Consolidation | Fantastic Journeys |
| Nov. | Number | Quantities and numbers can be partitioned into equal-sized units | Number Unit 3 Place Value  9.Building Numbers  10.Representing Numbers in Different Ways  11.What’s the Number?  12.Rounding Numbers  13.Consolidation | Finding Buster  How Numbers Work |
| Nov. | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Number Unit 5 Addition and Subtraction  19.Modelling Addition and Subtraction  20.Estimating Sums and Differences  22.Using Mental Math to Add and Subtract  23.Creating and Solving Problems  24.Creating and Solving Problems with Larger Numbers  25.Consolidation | The Street Party  Planting 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 Capacity  9.Measuring Area Using Non-Standard Units  10. Measuring Area Using Standard Units  11.Measuring Mass Using Non-Standard Units  12.Measuring Capacity Using Non-Standard Units  13.Consolidation | The Bunny Challenge  Measurements About You! |
| Dec. | Measurement | Assigning a unit to a continuous attribute allows us to measure and make comparisons | Measurement Unit 1 Length, Perimeter, and Time  1.Estimating Length  2.Relating Millimetres, Centimetres, Metres, and Kilometres  3.Measuring Length  4.Introducing Perimeter  5.Measuring Perimeter  6.How Many Can You Make?  7.Telling Time  8.Consolidation | The Bunny Challenge  Measurements About You |
| 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 Unit 1 2-D Shapes  1.Sorting Polygons  2.Exploring Congruency  3.What’s the Sorting Rule?  4.Composing Shapes  5.Consolidation  Unit 4 Angles  18.Investigating Angles  19.Comparing Angles  20.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 Solids  6.Exploring Geometric Attributes of Solids  7.Building Solids  8.Constructing Skeletons  9.Working with Nets  10.Consolidation | Wonderful Buildings |
| Feb | Number | Quantities and numbers can be added and subtracted to tell how many and how much | Number Unit 7 Financial Literacy  35.Estimating and Counting Money  36.Adding and Subtracting Money Amounts  37.Purchasing and Making Change  38.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 6  Multiplication and Division  26.Exploring Multiplication  27.Exploring Division  28.Relating Multiplication and Division  29.Properties of Multiplication  30.Multiplying and Dividing Larger Numbers  31.Creating and Solving Problems  32.Building Fluency: The Games Room  33.Investigating Ratios  34.Consolidation | Planting Seeds  Sports 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 Probability  Unit 1 Data Management  1.Sorting People and Things  2.Interpreting Graphs  3.Collecting and Organizing Data  4.Drawing Graphs  5.Identifying the Mode and the Mean  6.Consolidation  Unit 2 Probability and Chance  7.Making Predictions  8.Describing the Likelihood of Outcomes  9.Who’s Likely to Win?  10.Consolidation | Welcome to the Nature Park  Chance |
| May | Number | Quantities and numbers can be grouped by or partitioned into equal-sized units | Number Unit 4 Fractions  14.Exploring Equal Parts  15.Comparing Fractions 1  16.Comparing Fractions 2  17.Partitioning Sets  18.Consolidation | Hockey Homework |
| May | Geometry | Objects can be located in space and viewed from multiple perspectives | Geometry Unit 3 Mapping and Coding  11.Describing Location  12.Exploring Movements  13.Describing Movement on a Map  14. Coding on a Grid  15.Exploring Loops in Coding  16.Altering Code  17.Consolidation | Finding Buster  Robo (Grade 2) |
| June | Review |  | Review |  |