Course Description Grade 5 Mathematics

This course enables students to develop generalizations of mathematical ideas and methods through the exploration of applications, problem solving, the effective use of technology, and abstract reasoning.

Unit Titles	Overall Expectations
1. Patterns in Mathematics	2-D Patterns Patterns in Tables Solve Problems Using Patterns 3-D Patterns Number Patterns in Spreadsheets
2. Numeration	Estimating 50 Thousand Reading and Writing Numbers Renaming Numbers Comparing and Ordering Numbers Rounding Numbers Communicate About Numbers in the Media Decimal Hundredths Exploring Equivalent Decimals Rounding Decimals Comparing and Ordering Decimals Counting Money
3. Addition and Subtraction	Adding and Subtracting Using Mental Math Estimating Sums and Differences Adding Whole Numbers Solve Two-Step Problems Communicate About a Choice of Calculation Method Adding Decimals Adding Money Making Change
4. Multiplication and Division	Multiplying Tens Estimating Products Solve Problems Using Tree Diagrams Multiplying by Regrouping Multiplying with Arrays Dividing Hundreds by One-Digit Numbers Estimating Quotients Dividing Greater Numbers Choosing Multiplication and Division Methods

5. **Multiplying Decimals**	Estimating Products Multiplying by 10 or 100 Multiplying Tenths by Whole Numbers Multiplying Hundredths by Whole Numbers Communicate About Estimation Strategies Choosing a Multiplication Method
6. **Dividing Decimals**	Estimating Quotients Dividing by 10 Calculating a Decimal Quotient Dividing Decimals by Whole Numbers Choosing a Calculation Method Dividing to Compare Calculating the Mean Solve Problems by Working Backward
7. **Fractions**	Fraction Puzzles Equivalent Fractions Comparing Fractions Improper Fractions and Mixed Numbers Relating Fractions to Decimals Solve Problems by Making Models
8. **Measuring Length and Time**	Using Measurements to Describe Objects Measuring Lengths Measuring Circumference Measuring Perimeter Measuring the Perimeter of a Rectangle Solve Problems Using Tables Measuring Time Recording Dates and Times
9. **2-D Geometry**	Constructing Symmetrical Shapes Constructing Triangles Classifying Triangles by Angles Classifying Triangles by Side Lengths Measuring Angles in Polygons Properties of Polygons Sorting Polygons

10. Area and Grids	Areas of Polygons Areas of Irregular 2-D Shapes Relating Perimeter and Area of Rectangles Area Rule for Rectangles Solve Problems by Solving Simpler Problems Modelling Area Coordinates Grids
11. 3-D Geometry and 3-D Measurements	Making 3-D Shapes Making Nets Identifying Nets Building a Model Measuring and Comparing Capacity Measuring and Comparing Volume Relating Capacity Units to Volume Measuring and Comparing Mass Using Tonnes
12. Probability	Using Probability Language Predicting Probabilities Probabilities as Fractions Using a Model Estimate Probabilities Using Tree Diagrams Solve Problems by Considering All Possibilities
13. Data Management	Evaluating Survey Results Broken-Line Graphs Interpreting Circle Graphs Bar Graphs with Intervals Pictographs Changing a Graph Graphing with Technology Mean and Mode
14. Patterns and Motion in Geometry	Describing Tiling Patterns Extending Tiling Patterns Translating Shapes on Grids Rotating Shapes Communicate About Transformations Modelling Congruence with Transformations Exploring Similarity