

# Table of Contents

## Ontario Grade 5 Mathematics

	<b>Page</b>
<b>Introduction</b>	i
<b>Chapter 1 – Number Concepts</b>	
1.1 Representing and Describing Whole Numbers	2
1.2 Comparing and Ordering Numbers	11
1.3 Rounding and Estimation	15
<b>Chapter 2 – Number Operations</b>	
2.1 Adding and Subtracting Whole Numbers	28
2.2 Mental Mathematics for Multiplying	35
2.3 Multiplying Whole Numbers	43
2.4 Dividing Whole Numbers	48
2.5 Communicating with Ratios	60
2.6 Rates	64
<b>Chapter 3 – Fractions and Decimals</b>	
3.1 Comparing Fractions	76
3.2 Equivalent Fractions	81
3.3 Understanding and Rounding Decimals	85
3.4 Relating Decimals and Fractions	92
3.5 Addition and Subtraction of Decimals	97
3.6 Decimals and Percent	104
<b>Chapter 4 – Financial Literacy</b>	
4.1 Our Money System	121
4.2 Calculating with Money	125
4.3 What Are Taxes?	129
4.4 Financial Planning	132
<b>Chapter 5 – Patterns</b>	
5.1 Pattern Rules and Descriptions	143
5.2 Representing Patterns	148
<b>Chapter 6 – Variables and Equations</b>	
6.1 Mathematical Sentences and Placeholders	164
6.2 Mathematical and Word Sentences	167
6.3 Variables and Equations	170
6.4 Solving Inequalities	175
6.5 Solving Word Problems	178
<b>Chapter 7 – Measurement</b>	
7.1 Perimeter and Area	195
7.2 Drawing Rectangles	205
7.3 Measuring Angles and Constructing Triangles	211
7.4 Units of Length	216

	<b>Page</b>
<b>Chapter 8 – Lines, Shapes, and Transformations</b>	
8.1 Characteristics of 2-Dimensional Shapes	231
8.2 Characteristics of 3-Dimensional Objects	237
8.3 Plotting Points in the First Quadrant	240
8.4 Transformations of 2-D Shapes	245
<b>Chapter 9 – Data and Probability</b>	
9.1 Samples and Populations	257
9.2 Grouping and Interpreting Data	259
9.3 Displaying Data and a Review of Bar Graphs	265
9.4 Double Bar Graphs	274
9.5 Probability of an Event	280
<b>Chapter 10 – Social and Emotional Learnings</b>	
10.1 Communicating	296
10.2 Representing	301
10.3 Connecting and Relating	306
10.4 Reasoning and Proving	310
<b>Chapter 11 – Coding</b>	
11.1 The Structure of Coding	317
11.2 Simplifying the Code	320
11.3 Code Blocks	325
11.4 Conditional Statements	329
11.5 Writing Code in <i>Scratch</i>	335
<b>Answers to Exercises and Chapter Tests</b>	337