

Dear Parents,

Helping kids understand and apply mathematics knowledge and skills is a collective responsibility of parents, teachers, and principals.

Students need to learn mathematics in a way that will serve them throughout their lives. Understanding mathematics can provide our students with many job and career opportunities.

This is why students need to know why mathematics works the way it does, how to use it with confidence and competence when solving problems.

Understanding mathematics enables us to:

- Solve problems, make sound decisions and perform calculations with ease
- Explain how we solved a problem and why we made a particular decision
- Understand patterns and trends so that we can make predictions
- Understand Financial Literacy to manage time and money
- · Handle everyday situations that involve numbers and feel confident

Before your child can learn mathematics, he or she needs to believe in his or her ability to do so. That's where you come in!

Parents, you are your child's first role model for learning. When you engage with your child in a supportive, relaxed atmosphere, your child will enjoy exploring the world of mathematics.

Dynamic Math is committed to helping parents and students. We understand that not everyone learns the same way, and not everyone feels the same about math. This is why we are continually working to create math resources that help students of all abilities, while supporting the many learning styles and varying levels of enthusiasm towards math.

From our clear concise instructions and straightforward guided examples to our additional practice material and tests, there's something to suit everyone. Combined with our video tutorials, students will be able to get a tutor-like experience from anywhere and at a fraction of the cost of standard tutoring or after-school help programs.

## Table of Contents BC Grade 9 Mathematics

		Page		Page
Unit 1	- Number Concepts		Unit 6 – Comparing Figures	
1.1	The Real Number System	2	6.1 Congruent Triangles	155
1.2	Square Root of a Number	10	6.2 Similar Triangles	162
1.3	Powers, Bases, and Coefficients	20	6.3 Similar Polygons	167
1.4	Laws of exponents	26	6.4 Converting Linear Units	171
			6.5 Enlargements and Reductions	173
Unit 2	- Number Operations		6.6 Scale Diagrams	176
2.1	Operations with Rational Numbers	41		
2.2	Working with Percent (Review)	55	Unit 7 – Probability and Statistics	
2.3	Calculations Using Scientific	58	7.1 Review of Probability	187
	Notation		7.2 Probability of Independent Events	191
2.4	<b>Evaluating Exponential Expressions</b>	61	7.3 Populations and Samples	194
	with Numerical Bases		7.4 Conducting a Survey/Collecting Data	200
2.5	Using Laws of Exponents to Simplify Expressions with Variable Bases	63	7.5 Misuse of Statistics and Probability	203
	•		Unit 8 – Financial Literacy	
Unit 3	- Expressions, Equations and Graphs		8.1 Budgeting	217
	Translating Words and Algebraic	72	8.2 Balancing a Budget	220
	Expressions		8.3 Transactions	223
3.2	Generalizing Patterns in Problem	75	8.4 Savings and Interest	228
	Solving		8.5 Banking	232
3.3	Modeling Situations Represented by	78		
	First Degree Expressions		Unit 9 – Curricular Competencies	
3.4	Tables of Values and Linear	82	9.1 Communicating	241
	Equations		9.2 Representing	246
3.5	Graphs and Linear Relationships	90	9.3 Connecting	251
	•		9.4 Reasoning	256
Unit 4	- Variables, Equations, and Inequalities	es	-	
4.1	Solving and Verifying First-Degree Equations	104	<b>Answers to Exercises and Unit Tests</b>	261
4.2	Solving First Degree Inequalities Algebraically	114		
43	Using Equations to Solve Problems	120		
	Using Inequalities to Solve Problems	124		
7.7	Osing inequalities to solve 1 toolems	127		
Unit 5	– Polynomials			
	Constant Terms, Coefficients, and	133		
5.1	Variables in Polynomials	155		
5.2	Simplifying Polynomials	137		
	Addition and Subtraction of	139		
5.5	Polynomials	10)		
5.4	Multiplying Polynomials by	142		
5.1	Monomials			
5.5		146		
2.5	Monomial Monomial			

ABORIGINAL APPLICATIONS end of Units 1, 2, 3, 4, 6, 7, 9