

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 8 Mathematics

	Page		Page
Unit 1 – Number Concepts		Unit 7 – Measurement	
1.1 Rational and Irrational Numbers	2	7.1 The Pythagorean Relationship	160
1.2 Two and Three Term Ratios	7	7.2 Areas and Perimeters of Quadrilaterals	165
1.3 Percent	11	and Circles	
1.4 Square Root Concept	17	7.3 Areas of Composite Figures	171
1.5 Square Roots and Calculators	20	7.4 Volume of Solid Objects	177
1.6 Cubes of Numbers	23	7.5 Surface Area and Volume of a Prism	180
1.7 Rates	24	7.6 Surface Area and Volume of a Cylinder	185
1.8 Scientific Notation	28		
		Unit 8 – 2-D Shapes and 3-D Objects	
<b>Unit 2 – Number Operations</b>		8.1 Properties of Triangles	194
2.1 Operations with Fractions	37	8.2 Lines and Corresponding Angles	201
2.2 Operations with Decimals, Integers and	54	8.3 Parallel Lines Cut by Transversals	205
Other Rationals		8.4 Quadrilaterals and Regular Polygons	209
2.3 Rate, Ratio and Proportion	72	8.5 Properties of Quadrilaterals	213
2.4 Percent Problems	74	8.6 Using Nets to Build 3-D Objects	216
		8.7 Isometric Dot Paper	217
Unit 3 – Financial Literacy		8.8 3-D Rod Designs in 2-Dimensions	221
3.1 Unit Price	85		
3.2 Coupons	87	Unit 9 – Statistics and Probability	
3.3 Best Buy for Services	89	9.1 Measures of Central Tendency	238
		9.2 Probability of an Independent Event	243
Unit 4 – Patterns		9.3 Independent Events and Sample Space	246
4.1 Variables and Relations	96	9.4 Probability of Two Independent Events	254
4.2 Graphing with Tables of Values	103		
4.3 Translating Between Written and	106	Unit 10 – Curricular Competencies	
Algebraic Expressions		10.1 Communicating	265
4.4 Generalizing Patterns and Problem-	109	10.2 Representing	270
Solving		10.3 Connecting	275
		10.4 Reasoning	279
Unit 5 – Equations	110		20.5
5.1 First-Degree Equations	119	Answers to Exercises and Tests	285
5.2 First-Degree Equations: Different Forms	122	A DODLOWAL A DRIVE GA EVONG	
W. A. C. D. II. G. I.		ABORIGINAL APPLICATIONS	
Unit 6 – Problem Solving	1.40	End of Units 1, 2, 3, 4, 5, 6, 7, 8, 9	
6.1 Using Diagrams to Solve Problems	140		
6.2 Finding Relationships	144		
6.3 Organizing Information	148		
6.4 Interpreting Results	152		