

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

Grade 6 Mathematics

	Page
Chapter 1 – Number Concepts	
1.1 Place Value	2
1.2 Rounding Numbers	11
1.3 Solving Problems with Large Numbers	14
1.4 Factors and Multiples	18
1.5 Greatest Common Factor and Least Common Multiple	23
1.6 Improper Fractions and Mixed Numbers	27
1.7 Ordering and Comparing Fractions and Decimals	33
Chapter 2 – Ratio, Percent, Integers, and Decimals	
2.1 Ratio	47
2.2 Percent	51
2.3 Integers	56
2.4 Multiplying and Dividing Decimals	63
2.5 Problem Solving with Decimals	71
2.6 Order of Operations	75
Chapter 3 – Patterns	
3.1 Number and Symbol Patterns	91
3.2 Relationships with Tables of Values	95
3.3 Patterns in Tables and Graphs	98
3.4 Rules to Describe Relations and Predict Patterns	103
Chapter 4 – Variables and Equations	
4.1 Placeholders and Variables	117
4.2 Representing Generalizations	123
4.3 Preserving Equality	129
Chapter 5 – Measurement	
5.1 Types of Angles and Estimating Measures	143
5.2 Measuring and Drawing Angles	148
5.3 Interior Angles in Triangles and Quadrilaterals	151
5.4 Perimeter of Polygons	156
5.5 Area of Rectangles	160
5.6 Volume of Rectangular Prisms	164
Chapter 6 – Shapes and Transformations	
6.1 Types of Triangles	177
6.2 Sorting and Drawing Triangles	181
6.3 Regular and Irregular Polygons	186
6.4 Congruent Polygons	190
6.5 Transformations of 2-D Shapes	193
6.6 Plotting Points and Transformations in the First Quadrant	196
Chapter 7 – Statistics and Probability	
7.1 Collecting Data	212
7.2 Line Graphs	221
7.3 Displaying, Graphing and Interpreting Data	228
7.4 Possible Outcomes and Experimental Probability	234
7.5 Theoretical Probability	238
Answers to Exercises and Chapter Tests	252