

Mr. Boretto
7th Grade Math
Course Outline

Pre Algebra

Integers and Expressions
Adding, Subtracting, Multiplying and Dividing Integers
Variables and Variable Expressions
Order of Operations

Decimals and Equations
Estimating, Exploring Expressions with decimals
Addition, Subtraction, Multiplication and Division with decimals
Problem Solving with decimals

Algebra in Geometry
Introduction to Angles, Polygons, Quadrilaterals and Triangles
Congruence and Similar Figures
Exploring Pi and Circumference

Geometry and Measurement (Area and Volume)
Area of Rectangles and Parallelograms
Area of Triangles and Trapezoids
Area of Circles
Pick's Theorem
Slicing Patterns in a Cube
Volume and Surface Area of Prisms and Cylinders

Number Theory and Discrete Math
Exploring Square Numbers
Exponentials
Rules and Scientific Notation
Factors, Multiples and Divisibility
Prime Factorization
Greatest Common Factor and Least Common Multiple

Rational Numbers and Expressions
Equivalent Fractions and Lowest Terms
Fractions and Decimals
Comparing and Ordering
Adding and Subtracting
Multiplying and Dividing Rational Numbers

Ratios, Proportions, and Percents
Equations and Inequalities

Graphing on a Coordinate Plane
Graphing Linear Equations
Slope and Y-Intercept
Solving Linear Equations
Graphing Linear Equations

Problem Solving Format
Addressing Open Ended Question
The Four Step Approach through
Word Problems of the Week 9-199

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