

SCHOOL: Broad Meadows Middle School
ADDRESS: 50 Calvin Road
PHONE #: 617-984-8723

SYLLABUS

TEACHER Mr. Ryan Bell

COURSE/GRADE LEVEL Pre-Algebra, Grade 7, Honors

INSTRUCTIONAL MATERIALS *McDougal Littell Pre-Algebra*

MAJOR TOPICS*

Exploring Patterns

- Number Patterns and Operations
- Powers and Square Roots
- Order of Operations
- Variables in Expressions
- Tables and Graphs
- Patterns in Geometry and Technology

Investigations in Algebra

- The Distributive Property
- Combining Like Terms
- One-Step Equations
- Model Verbal Expressions and Sentences
- Problem Solving Using Equations
- Simple Inequalities

Integers

- Integers and Absolute Value
- Adding and Subtracting Integers
- Multiplying and Dividing Integers
- Problem Solving Using Integers
- Patterns in the Coordinate Plane

The Language of Algebra

- Solve Two-Step and Multi-Step Equations
- Solve Equations Using the Distributive Property
- Solve Problems with Two or More Step Equations
- Use Formulas from Geometry to Solve Problems

Number Theory

- Divisibility Tests, Factors and Primes
- Greatest Common Factor and Least Common Multiple
- Rational Numbers and Decimals
- Powers and Exponents, Negative and Zero Exponents
- Scientific Notation

Rational Numbers and Percents

- Operations with Rational Numbers

Write Decimals as Percents and Percents as Decimals
Write Fractions as Percents and Percents as Fractions
Find a Percent of a Number
Problem Solving with Percent
Proportion, Percent and Probability
Rates, Ratios, and Proportions
Solving Problems with Proportions
Solve Three Types of Percent Problems with Proportions
Find Percent of Increase and Decrease, Discount, Commission
Real Numbers and Inequalities
Squares, Square Roots, and the Pythagorean Theorem
Solve and Graph Inequalities
The Triangle Inequality

***ASSESSMENT TOOLS**

Portfolios
Rubrics
Projects
Notebooks
Interdisciplinary activities
Open ended questions
Word problems
Objective Tests/Quizzes
Exams
Mid Year Exam
Final Exam
Homework

***See Individual Student Education Plans or 504 Plans for modification where applicable.**

HOMEWORK EXPECTATIONS

Homework is to be done nightly in student's notebook and corrected in class by the student.

GRADING POLICY

At the end of the term, the final grade is based on an average of tests, quizzes, homework, and projects.

MAKEUP PROCEDURE

If a student is absent, the student needs to see me on the day of return to school to receive any make-up work. Arrangements will be made on an individual basis as to when missed tests can be taken. Make-up work is to be done in a reasonable amount of time based on the length of absence.

GENERAL INFORMATION

Students need to have their text, notebook, agenda, and pencil each day for class.

***Adjustments may be made in this syllabus to meet student needs.**