

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

## **SYLLABUS**

**TEACHER** Mr. Patrick Carnes

**COURSE/GRADE LEVEL** Integrated Mathematics, Grade 7

**INSTRUCTIONAL MATERIALS** *McDougal Littell Math, Course 2*

### **MAJOR TOPICS\***

#### Geometry

- Intersecting and Parallel Lines
- Translations
- Perimeter, Circumference, Area
- Squares, Square Roots, and The Pythagorean Theorem

#### Number Relationships and Fractions

- Order of Operations
- Powers and Exponents
- Divisibility Tests
- Prime Factorization
- Greatest Common Factor
- Simplest Form of Fractions
- Convert Fractions to Decimals
- Order Rational Numbers on a Number Line

#### Operations with Fractions

- Least Common Multiple
- Mixed Numbers and Improper Fractions
- Addition and Subtraction of Fractions and Mixed Numbers
- Multiplication and Division of Fractions and Mixed Numbers
- The Distributive Property

#### Ratio and Proportion

- Ratio and Rates
- Solve Proportions
- Solve Problems Using Proportions

#### Percents and Decimals

- Percent, Fraction, Decimal Equivalents
- Solve Three Types of Percent Problem
- Circle Graphs
- Simple Interest
- Percent Increase and Percent Decrease

#### Algebra and Integers

- Patterns, Tables and Expressions
- Scatter Plots and the Coordinate Plane

Integers and the Number Line  
Add Integers on a Number Line  
Subtract Integers on a Number Line  
Solve Addition and Subtraction Equations  
Solve Multiplication and Division Equations

### **\*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.**