

**SCHOOL:** Atlantic Middle School  
**ADDRESS:** 86 Hollis Avenue  
**PHONE #:** 617-984-8727

## **SYLLABUS**

**TEACHER** Mrs. Mary E. Lydon

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

**INSTRUCTIONAL MATERIALS**

*McDougal Littell Math, Course 2*

**MAJOR TOPICS\***

Number Sense, Patterns, and Algebraic Thinking

Describing Patterns

Variables and Expressions

Powers and Exponents

Order of Operations

Equations and Mental Math

Perimeter and Area

Decimal Operations

Comparing, Ordering, and Rounding Decimals

Adding, Subtracting, Multiplying, and Dividing Decimals

Scientific Notation

Measuring and Converting Metric Units

Data and Statistics

Mean, Median, Mode, Range

Bar Graphs and Line Graphs

Stem-and-Leaf Plots and Box-and-Whisker Plots

Histograms

Number Patterns and Fractions

Prime Factorization

Greatest Common Factor, Equivalent Fractions, and Least Common Multiple

Comparing and Ordering Fractions, Mixed Numbers, and Improper Fractions

Converting Fractions to Decimals and Decimals to Fractions

Fraction Operations

Adding and Subtracting Fractions and Mixed Numbers

Multiplying and Dividing Fractions and Mixed Numbers

Measuring and Converting Customary Units

Integers

Comparing and Ordering Integers

Adding, Subtracting, Multiplying, and Dividing Integers

Rational Numbers, The Distributive Property, and The Coordinate Plane

Equations, Inequalities, and Functions

Writing Expressions and Equations

Simplifying Expressions

Solving Addition, Subtraction, Multiplication, and Division Equations

Solving Two-Step Equations and Inequalities

Functions and Equations

Ratio and Proportion

Ratio and Rates

Slope

Writing and Solving Proportions, Scale Drawings and Models

Percents

Percents and Fractions, Proportions, and Decimals

Circle Graphs

Percent Increase and Percent Decrease

Discounts, Markups, Sales Tax, and Tips, Simple Interest

Geometric Figures

Angles, Triangles, Polygons

Similar and Congruent Polygons

Transformations and Symmetry

Measurement and Area

Area of Parallelograms, Triangles, Trapezoids

Circumference and Area of a Circle

Surface Area and Volume

Classify and Sketch Solids

Surface Area of and Volume of Rectangular Prisms, Cylinders, and Pyramids

Probability

Investigating and Finding Probabilities

Tree Diagrams

**\*ASSESSMENT TOOLS**

Portfolios

Rubrics

Open ended questions

Word problems

Writing assignments

Objective Tests/Quizzes

FCA'S for long essays

Homework

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

### **HOMEWORK EXPECTATIONS**

Homework is given most nights. In general, it is due the following day. If it is complete and on time, it is worth 2 points. If it is late or incomplete, it is worth 1 point. To be counted late, it must be done the next day after it was due. If it is not done, it is worth 0 points. At the end of the term, a homework average is computed based on the number of points earned divided by the possible number of points.

### **GRADING POLICY**

Each test counts as one grade, quizzes for each chapter are averaged as one test grade, writing assignments for the term are averaged as one grade, homework counts as one test grade. At the end of the term, the final grade is based on an average of the tests, quizzes, writing assignments, and homework.

### **MAKEUP PROCEDURE**

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

### **GENERAL INFORMATION**

Students need to have their text, a notebook and a pencil each day.

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