

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

SYLLABUS

TEACHER *Mrs. Thao Nguyen-Ippolito*

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

Students will find homework and other assignments in the Weekly Calendar. The calendar will be distributed to students at the beginning of the week. Homework is assigned almost everyday and due on the following day. It will not be accepted late except due to absences. Homework will be graded based on completion not accuracy and as follows:

4	-	<i>Complete, Well-Done</i>
3	-	<i>$\frac{3}{4}$ Complete, Good Effort</i>
2	-	<i>$\frac{1}{2}$ Done, Fair</i>
1	-	<i>$\frac{1}{4}$ Done, Little Effort</i>
0	-	<i>Not Passed In, No-Effort</i>

GRADING POLICY

Each term, your grade will be distributed in the following way:

5% Attendance/Participation/Organizing Notebook

10% Preparation (Homework and Bringing Materials Needed)

15% Quizzes (4-5)

20% Projects (1-2)

30% Tests/Exams (3-4)

20% Exemplars/Open Response Questions (1-2)

MAKEUP PROCEDURE

If a student is absent, the student should see teacher 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.**