

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

SYLLABUS

TEACHER Mrs. Dawn Tomasini

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.**