

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

TEACHER Mrs. Mary E. Lydon

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

INSTRUCTIONAL MATERIALS

McDougal Littell Pre-Algebra

MAJOR TOPICS*

Variables, Expressions, and Integers

Expressions and Variables

Powers and Exponents

Order of Operations

Comparing and Ordering Integers

Adding, Subtracting, Multiplying, and Dividing Integers

The Coordinate Plane

Solving Equations

Properties and Operations

The Distributive Property

Simplifying Variable Expressions

Variables and Equations, Solving Equations

Decimal Operations and Equations with Decimals

Multi-Step Equations and Inequalities

Solving Two-Step Equations

Solving Multi-Step Equations and Inequalities

Factors, Fractions, and Exponents

Factors and Prime Factorization

Greatest Common Factor and Least Common Multiple

Rules of Exponents

Scientific Notation

Rational Numbers and Equations

Rational Numbers

Adding and Subtracting Like and Unlike Fractions

Multiplying and Dividing Fractions

Using Multiplicative Inverses to Solve Equations

Equations and Inequalities with Rational Numbers

Proportion, Percent and Probability

Rates and Ratios

Writing and Solving Proportions

Similar and Congruent Figures

Similarity and Measurement, Scale Drawings

Probability and Odds

The Counting Principle

Percents

Percents and Fractions, Percents and Proportions, Percents and Decimals

The Percent Equation

Percent of Change, Percent Application

Simple and Compound Interest

Linear Functions

Relations and Functions

Linear Equations in Two Variables

Using Intercepts

The Slope of a Line, Slope-Intercept Form

Measurement, Area, and Volume

Triangles, Polygons, and Quadrilaterals

Areas of Parallelograms and Trapezoids

Circumference and Area of a Circle

Surface Areas and Volume of Prisms, Cylinders

Data Analysis and Probability

Stem-and-Leaf Plots, Histograms, and Box-and-Whisker Plots

Using Data Displays, Collecting and Interpreting Data

Permutations and Combinations

Probabilities of disjoint and Overlapping Events

Independent and Dependent Events

Angle Relationships and Transformations

Angle Relationships, Angles and Parallel Lines, Angles and Polygons

Translations, Reflections, Rotations, and Dilations

Real Numbers and Right Triangles

Square Roots, The Pythagorean Theorem, Real Numbers

***ASSESSMENT TOOLS**

Portfolios

Rubrics

Open ended questions

Word problems

Writing Assignments

Objective Tests/Quizzes

FCAS for long essays

Homework

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

HOMEWORK EXPECTATIONS

Homework is assigned most nights. In general, it is due the following day. It is graded on completion not accuracy. A homework assignment that is on time and complete is worth 2 points. If it is one day late or incomplete, it is worth 1 point. 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. It is then counted as one test grade.

GRADING POLICY

Each mid-chapter quiz counts as one test grade. Chapter tests count as one test grade. Writing assignments are averaged as one test grade. Homework counts as one test grade. At the end of the term, the final grade is an average of the quizzes, tests, writing assignments, and homework.

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

Each student needs to have his or her text, a notebook and a writing instrument each day. It is also strongly recommended that each student have a scientific calculator. If you are purchasing a new one, a TI-30XIIS (made by Texas Instrument) is the one used in class.

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