

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

McDougall 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
FCA'S 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 calculator.

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