

SCHOOL: Sterling Middle School
ADDRESS: 444 Granite Street
PHONE #: 617-984-8729

SYLLABUS

TEACHER: Mr. Patrick Lane

COURSE/GRADE LEVEL: Eighth Grade Algebra I

INSTRUCTIONAL MATERIALS: Algebra I Textbook and an optional DVD

MAJOR TOPICS:

Exploring Number, Algebraic, and Geometric Patterns
Fraction/Decimal Operations
English and Metric Measurement Systems
Ratio, Proportions, and Percents
Multi-Step Equations
Mathematical Properties
Exponents and Square Roots
Solving and Graphing Inequalities
Probability and Statistics
Pythagorean Theorem
Use of Geometric Formulas-Area, Surface Area, and Volume
Scientific Notation
Absolute Value
Polygons and Transformations
Integer Operations
Graphing Equations with Table of Values, Slope/Y-Intercept, etc
Algebra Word Problem Format: Set-up, Equation, Solve Equation, Answer Question
Possible Topics Include: Polynomials, Factoring, Quadratic Equations, Systems of Linear Equations, and Introductory Trigonometry concepts

ASSESSMENT TOOLS*

Rubrics
Performance Tasks
Tests/Quizzes
Class Participation
Homework

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

HOMEWORK EXPECTATIONS:

Students should expect homework on a near daily basis covering recently learned material as well as reviewing previous lessons/units. Homework assignments will consist of materials given out in class and/or online assignments that can be accessed from outside the classroom. Students should expect 30 minutes of homework from these various assignments.

All make up work is half credit unless due to an absence.

GRADING POLICY

Tests: 35%

Quizzes/Performance Tasks: 30%

Homework: 25%

Participation: 10%

MAKEUP PROCEDURE

Homework: If absent, a student is allowed to make up an assignment until the end of the grading term for full credit. If assignment is not made up, it will result in a zero. A student will also be allowed to make up a missed assignment for half of the original credit.

Quizzes/Tests: If a student scores less than 80% on a quiz or a test, he/she must get a parent signature. In addition, the student may also correct mistakes from the test on a separate paper to earn half of the missed points back for an improved grade.

GENERAL INFORMATION

Extra Help is available mornings and most afternoons by appointment.

It is strongly recommended that they bring a book, notebook, pencil, and a TI-30XIIS calculator to class.