

P.S. 035 Manhattan High School Course Syllabus

Course Code: MEF42-33/MEF42-44

Course Name: ALGEBRA 2/4

Teacher Name: WATKINS

Year and Term: SUMMER 2020

Learning Standards and Course Objectives:
At the end of this six week course students will be able to :

- Perform all four arithmetic operations and apply properties to generate equivalent forms of rational numbers and square roots.
- interpret and guide the solution of multi-step problems; choose and interpret units consistently in formulas; and choose and interpret the scale and the origin in graphs and data displays.
- Create equations and inequalities in one variable to represent a real-world context
- Explain each step when solving a linear or quadratic equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method. Solve equations and inequalities in one variable. Solve linear equations and inequalities in one variable, including equations with coefficients represented and letters

Course Description: This six week Algebra

course is designed to provide the student those skills necessary for the successful transition into Geometry and other advanced math classes. Topics include the language of algebra (vocab.), linear equations and inequalities, polynomials, systems of equations, word problems, graphing, factoring, and radicals. Consistent note taking is key to passing this class; note taking is necessary for retaining information covered on the NYS Regents. Theories, rules, and application will be covered throughout this course. Various mediums including interactive software will be used to insure student's mastery of the content.

Course Outline:

Week 1: Review and Introduction

Week 2: Laws of Exponents and Exponential functions

Week 3: Polynomials

Week 4: Factoring and Graphing

Week 5: Review and Assessment

Week 6: Culminating project/ activity

Grading Policy: Students will earn a grade of "CR/P" by earning a minimum of 400 points. Points will be earned by completing weekly assignments that are worth 50 - 120 points each.

Other Expectations: Students will complete and submit assignments in a timely manner. Students will participate in weekly Google Meets sessions.