

P.S. 035 Manhattan High School Course Syllabus

Course Code: MEF41-33 / MEF41-44

Course Name: ALGEBRA 1/4

Teacher Name: Watkins

Year and Term: Summer 2020

Learning Stands/Course Objectives: At the end of this course students will be able to:

- Use prerequisite math skills to solve, design, create, and model mathematical concepts.
- Use deductive reasoning
- Understand and explain mathematical relationships
- Understand solving equations as a process of reasoning and explain the reasoning
- Solve equations and inequalities using variables
- Solve systems of equations
- Represent and solve equations and inequalities graphically

Course Description: During this six week course instruction will focus on transferring concrete mathematical knowledge to more abstract algebraic generalizations. In this course, students will learn to recognize patterns using tables, graphs, and equations. Students will explore operations on algebraic expressions, and apply mathematical properties to algebraic equations. Students will apply what they learn to real-world concepts and tasks. Students will be able to model concepts covered in this course in a culminating activity (i.e graphic display, open-ended question answering, formal assessment, etc.)

Course Outline:

Week 1: Understanding concepts (review of prerequisite skills)

Week 2: Solving equations (Understanding order of operations, evaluating expressions, solving word problems equation)

Week 3: Create equations that describe numbers or relationships. (graphing and recognizing patterns)

Week 4: Represent and solve equations and inequalities graphically.

Week 5: Review and assessment

Week 6: Culminating project/assignment- students will get to choose how they will showcase what they have learned during the previous five weeks of instruction

Grading Policy: Students will complete assignments to earn a minimum of 400 points in order to receive a "CR/P"- each assignment will have point values of 50-120 points.

Other Expectations: Students will submit assignments in a timely fashion. Students will participate in weekly synchronous learning activities. Students will respond to posts on Google classroom