

P.S. 035 Manhattan High School Course Syllabus

Course Code: MEF41-03/04
Course Name: Algebra I 2/4
Teacher Name: Thomas
Year and Term: Summer 2020

Learning Standards:

N-RN: The Real Number System
N-QA: Quantities
SSE: Seeing Structure in Expressions
CED: Creating Equations
REI: Reasoning with Equations and Inequalities
F-IF: Interpreting Functions
F-BF: Building Functions
F-LE: Linear, Quadratic, and Exponential Growth

Course Description:

Algebra I is a course designed to introduce students to fundamental math concepts that can be applied in a real world setting. Students will learn and interpret expressions and their structure, arithmetic operations, equations and their relationships, as well as solve equations and explain the reasoning it consists of. As a result of taking this course, students will be able to make sense of problems and solve them, reason abstractly and quantitatively, and construct viable arguments and critique the reasoning of others. During the duration of this course and after it, tools, models, and techniques strategically will be applied that can be used in both the process of reasoning and structure as students focus on precision.

Calendar or Unit Map:

*4-1: Using Graphs to Relate Two Quantities, *4-2: Patterns and Linear Functions, *4-3: Patterns and Nonlinear Functions, *5-1: Rate of Change and Slope, *5-3: Slope-Intercept Form

Course Materials:

ipad, laptop, or computer
notebook
paper
pencil

Grading Policy:

Assignments (50%): Assignments will be based on the lesson/topic covered for the week. There will be two options of the assignments posted for you to choose from. If you decide to do both assignments you will be you receive extra credit. Assignments will be graded based on quality of the work and completion of the work. All assignments are to be completed and handed in on time. Exceptions will be made for handing in late assignments at the discretion of the teacher and with a plausible explanation provided.

Research Paper/Essay (20%): A Research Paper/Essay will be required. The topic for this paper/essay will be related to a topic/concept in math. Students will be provided with an outline and directions on what area(s) need to be covered in the paper/essay. The paper/essay will have an introduction, body, and conclusion. All work that is submitted must be your own (not copied from another source). If your paper/essay is copied or has portions of it that has been copied, it will be sent back to you and no credit will be given. The paper/essay will be broken up into two parts (Part I and Part II). More information will be provided by the teacher.

Class Participation (Google Meetings/One-on-One/Work Submission) (15%): Students are encouraged to actively participate in class. This involves attending weekly Google Meetings as well as not only asking questions, but answering questions, and volunteering to do practice problems. It is pertinent that you make an effort to attend these meetings as it provides you with the opportunity to engage online with your teachers and classmates in a positive and encouraging learning environment. Working with the teacher at scheduled times for one-on-one instruction/support counts as class participation as well for those who prefer an alternative to whole class meetings. Also, the submission of the work/assignments counts as class participation too.

****There is more than one way to receive credit for class participation****

Quiz (15%): Two quizzes will be given during the summer. The quiz will reflect the information that was covered based on the power points, videos, and assignments. There will be a due date to submit your quiz online on the Google classroom. If you are having trouble uploading your quiz you have the option of emailing it to the teacher. If you fail to submit the quiz on the day/time it is due you need to speak with the teacher to schedule a makeup day/time to submit it. If you fail to do this you will receive a grade of a zero (0).

Other Expectations:

Students are expected to respond to emails sent by their teachers, be prepared to complete and submit their assignments on time, and attend scheduled meetings. This consists of being ready to do your work and fully participate every day that class is in session. Students should also be polite, respectful, responsible, and ready to learn every day.

It is also encouraged that students use utilize the math resources provided to them on the Google classroom. Students should also watch the videos that are uploaded to all assignments posted on the Google Classroom. This will help to reinforce what was learned in class, but also provide an opportunity to practice the course material. The use of videos and practice exercises can be utilized as an influential way to grasp the material and further their understanding of various topics that are discussed within this course. Students will be exposed to visual, audio, and tactile methods that are essential to learning.