

P.S. 035 Manhattan High School Course Syllabus

Course Code: MES42QQR

Course Name: Algebra I 2/4

Teacher Name: Thomas

Year and Term: Spring 2021

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, *4-4 Graphing a Function Rule, *4-5 Writing a Function Rule, *4-6 Formalizing Relations and Functions, *4-7 Arithmetic Sequences, *5-1: Rate of Change and Slope, *5-3: Slope-Intercept Form, *5-4 Point-slope Form, *5-5 Standard Form, *5-5 Parallel and Perpendicular lines, *Graphing Absolute Value Functions, *6-1 Solving Systems by Graphing, *6-2 solving Systems Using Substitution, *6-3 Solving Systems Using Elimination, *6-5 Linear Inequalities, *6-6 Systems of Linear Inequalities

Course Materials:

ipad, laptop, or computer
notebook
paper
pencil
calculator

Grading Policy:

Assignments (60%): Assignments will be based on the lesson/topic covered for the week. 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. If indicated, you must show your work on ALL assignments. Assignments submitted without work will result in partial credit ONLY.

Class Participation (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.****

Test (25%): The test will be based on the topic/lessons that were taught and the assignments that were given. It will consist of vocabulary words, multiple choice, fill in the blank, and computation. You can use your notes for the test. Tests are expected to be submitted on or before the due date. If you are unable to submit your test on the due date you need to speak with the teacher to determine when it can be submitted. Failure to do this will result in a grade of a zero (0). When the test is taken and submitted the grade of a zero (0) will be removed.

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 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.

Students are encouraged to use Dial-A-Teacher for additional assistance. This is a helpline geared at helping students with their homework in any academic subject. The help provided is by teachers who are knowledgeable in the material and are more than ready to help and assist students as needed. The days/hours for help are Monday, Tuesday, Wednesday, and Thursday from 4:00pm to 7:00pm.