

P.S. 035 Manhattan High school Course Syllabus

Course Name: Algebra 1

Teacher Name: Osei B. Bandele

Year and Term 2017-18

Learning Standards:

A.RE i.2

RN The Real Number System

Q Quantities

SSE Seeing Structure in Expressions

APR Arithmetic with Polynomials and Rational Expressions

CED Creating Equations

REI Reasoning with Equations and Inequalities

IF Interpreting Functions

BF Building Functions

LE Linear, Quadratic and Exponential models

ID Interpreting Categorical and Quantitative Data

Course Description:

The curriculum of Algebra 1 has 12 Chapters consisting of 5 Units. Unit 1: Relationship between Quantities, Unit 2: Linear Relationships, Unit 3: Exponential and Quadratic Relationships, Unit 4 Advanced Functions and equations, and Unit 5: Data Analysis. This is a significant step up from basic math and is sure to cause some anxiety. But, never fear, help is always here.

A review of the most basic Algebra rules (P.E.M.D.A.S), and evaluating variable expressions, should set the stage to see that accuracy, order and use of correct signs are very important in

math. Remember that attendance, participation, and understanding of the subject matter are factors for how quickly we advance to the new topics.

Calendar or Unit Map

Unit 1: Relationship between Quantities

- 1: Expressions, Equations, and Functions
- 2: Linear Equations

Unit 2: Linear Relationship

- 3: Linear Functions
- 4: Equations of Linear Functions
- 5: Linear Inequalities
- 6: Systems of linear Equations and Inequalities

Unit 3: Exponential and Quadratic Relationships

- 7: Exponents and Exponential Functions
- 8: Quadratic Expressions and Equations
- 9: Quadratic Functions and Equations

Unit 4: Advanced Functions and Equations

- 10: Radical Functions and Geometry
- 11: Rational functions and Equations

Unit 5: Data Analysis

- 12: Statistics and Probability

Grading Policy:

Classwork (40%) It is important that you at least, try, to complete your assignment

Quizzes (25%) If you are absent and miss a quiz you will be able to take it another day.

Test (25%) If you miss a test you will be given it on another day.

Homework (10%) Homework is a daily thing. Homework is also unfinished classwork.

Other Expectations:

For students who miss class due to sickness or unforeseen problems, completion of the work you missed should allow you to get back on track to get a passing grade.