

**Algebra 1 POE
Syllabus
2022-2023**

COURSE

Algebra 1 POE. This course emphasizes the further development of skills, techniques and connections of Algebraic concepts. Topics include but are not limited to:

- Rational and Irrational Numbers
- Linear Equations
- Applications of linear equations
- System of Equations & Inequalities
- Polynomials & Factoring
- Absolute Value & Quadratic Functions
- Exponents & Exponential Functions
- Box Plots & Two-way Frequency Tables
- Radical Expressions & Equations
- Rational Expressions & Functions

It teaches you to think logically, solve problems and use your critical thinking skills in real life situations.

CREDIT AND PREREQUISITES

One half credit per semester. Prerequisite: Pre-Algebra I

LEARNING OBJECTIVES

The student will be able to:

- a) Demonstrate and apply knowledge and sense of numbers including basic arithmetic operations, number patterns, ratios and proportions.
- b) Use algebraic and analytical methods to identify and describe patterns and relationships in data solve problems and predict results.
- c) Collect, organize and analyze data, using statistical methods to predict results and interpret uncertainty and chance in practical applications.

LEARNING EXPERIENCES

The student will:

- a) Listen, take notes and actively participate in class discussions.
- b) Be part of a learning community.

c) Be responsible, prepared and resourceful.

COURSE MATERIALS

- Algebra Textbook, Pearson and/or Handouts.
- Three-ringed binder, or notebook (graphing paper recommended).
- 2 or 3 Pencils; Highlighter.
- Graphing Calculator (provided by school)
- Graphing Paper (provided by school)
- Rulers and manipulatives (provided by school)

GRADING SCALE AND CATEGORY WEIGHTS

Grades given on assessments, and homework can be seen in power school. Grades for the marking period will be assigned based on the following schools' scale:

A=90%-100%

B=80%-89.9%

C=70%-79.9%

D=65%-69.9%

F=Less than 65%

Category Weights for this class are based on last update from Math department meeting:

Weights	Algebra 1	Geometry	Algebra 2
Tests	25 - 40 %	25- 35 %	30 - 50 %
Quizzes	15 - 25 %	20 - 25 %	10 - 40 %
Tests/Quizzes		40 - 50 %	
Homework	10 - 25 %	10 - 30 %	10 - 25 %
Classwork/Participation	10 - 25 %	0 - 10 %	0 - 15 %
Projects	15 - 30 %	10 - 30 %	
Projects/Portfolios/ECR			10 - 40 %
Notebook			0 - 10 %
Do Now		0 - 5 %	0 - 5 %

Tests/Quizzes (evaluations), 40%

Homework/Classwork, 30%

Portfolio/Projects, 30%

STUDENT RESPONSIBILITIES

If a student cuts class, then the student will not have permission to go on a field trip. If a student has a cell phone entering the class, during class or leaving the class, the student will not receive a grade more than 75. A student having a cell phone during any class shows disrespect to the teacher and lack of interest in the class. A cell phone is not necessary for class, calculators are provided. In the classroom it is prohibited to charge cell phones. You must have your cell phone off or silent, and not visible at all. This is a rigorous course, which requires exhaustive work from the student to complete classwork, homework, projects, and portfolios. Homework requires 30 minutes after school depending on skills, and academic background of the student. If any student is missing algebra 1 skills to complete homework, it is the student's responsibility to spend extra time on this skill in order to master it. HW's grade will be based on accuracy. No student may record the class or take pictures in any fashion unless they have written permission from Mr. Rivadeneyra.

WEBSITE RESOURCES

www.yourteacher.com

www.youtube.com

Mr. Rivadeneyra
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Jose Marti Stem Academy