



Unit 4: System of Equations

Unit Length: 15 days

Domain: Reasoning with Equations and Inequalities

- Cluster 16: Solve systems of equations and inequalities graphically.
- Cluster 17: Solve systems of equations.

Standards:

- *HSA.REI.C.6:
 - Solve **systems of equations** algebraically and graphically.
- HSA.REI.C.5:
 - Solve **systems of equations** in two variables using **substitution** and **elimination**; understand that the solution to a **system of equations** will be the same when using **substitution** and **elimination**.
- HSA.REI.C.7:
 - Solve **systems of equations** consisting of **linear** equations and **nonlinear** equations in two variables algebraically and graphically.
 - For example: Find the **points of intersection** between $y = -3x$ and $y = x^2 + 2$.
- HSA.REI.D.11:
 - Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; Find the solutions approximately by: using technology to graph the functions; making tables of values; finding successive approximations.

**Guaranteed Viable Curriculum.*

Vocabulary to Emphasize is highlighted in **bold** script.



Northside High School
Algebra 2 Curriculum

Learning Goal	Notes	Bellwork/Exit	Practice
<p>Students will exhibit knowledge of solutions to systems and be able to determine an efficient or effective solution method.</p> <p>Students will solve systems of linear/linear and linear/quadratic equations in two variables using graphing with and without technology and be able to explain why the intersection point is the solution.</p>	<p>Graphing a System of Equation Note.</p> <p>Solving a System of Equations Algebraically Note.</p> <p>Linear Quadratic System of Equations Note.</p>	<p>Pre Assessment CFA 1 Unit 4 System of Equations Vocabulary.</p> <p>CFA 1 Unit 4: System of Equations Vocabulary.</p> <p>Pre-Assessment CFA 2 Unit 4: Solving a Linear System of Equations.</p> <p>CFA 2 Unit 4: Solving System of Equations.</p> <p>Pre Assessment for CFA 3 Unit 4: Linear Quadratic Systems.</p> <p>CFA 3 Unit 4: Solving a Linear Quadratic System.</p>	<p>MAP Lesson: Classifying System of Equations.</p> <p>Task: Identifying Type of System of Equations.</p> <p>Task: Graphing a System of Equations.</p> <p>Worksheet Graphing a System of Equations.</p> <p>Worksheet for Independent Work: Solving a System of Equations Algebraically.</p> <p>Matching Worksheet Solving a System of Equations.</p> <p>Graphing Calculator Activity System of Equations.</p> <p>Worksheet Solving and Graphing Linear System of Equations.</p> <p>Worksheet 1-5 Solving Linear Quadratic Systems.</p> <p>Worksheet 1 only Key Solving a System of Equations.</p> <p>Task: Writing a Linear System of Equations.</p> <p>Task: Visualizing a Quadratic System of Equation.</p> <p>Task: Solving a Linear Quadratic System of Equations.</p>



Summative Assessment System of Equations (Regular Version).

Key Summative Assessment System of Equations (Regular Version).

Multiple Choice Section Summative Assessment System of Equations (PAP Version).

Free Response Section Summative Assessment System of Equations (PAP Version).

Key Summative Assessment System of Equations (PAP Version).