

8th Grade - Unit 5: Math - Systems of Equations

Content Area: **Mathematics**
Course(s): **Math 6, Generic Course**
Time Period: **Generic Time Period**
Length: **14 days**
Status: **Published**

Established Goals/Standards

Please choose the appropriate Goals/Standards from the Standards tab above.

MA.8.EE.C.8	Analyze and solve pairs of simultaneous linear equations.
MA.8.EE.C.8a	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.
MA.8.EE.C.8b	Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.
MA.8.EE.C.8c	Solve real-world and mathematical problems leading to two linear equations in two variables.

Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- How do you determine if a system has one solution, many solutions, or no solutions?
- What is a system of equations?

Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- A system of equations consists two or more equations written with two or more variables.
- You determine the number of solutions by solving the system using various methods.

Content

Students will be able to:

- Solve systems of equations by graphing
- Solve systems by using substitution
- Solve systems of equations by using elimination
- Use systems to solve real world problems

Vocabulary:

- systems of equations
- graphic method
- substitution method
- elimination method
- solution of a system

Assessment

Resources

- Savvas enVision textbook and online resources
- Teacher made flip-charts
- Web-based activities (mathplayground.com) (coolmath.com)
- Teacher made worksheets/assessments
- mad minutes
- NJCTL.org (PMI math)
- Pizzazz series of worksheets