

Unit Plan by Prioritized Standards

Content Area	Math
Grade/Course	8th grade
Unit of Study	Systems of Equations - Part 3
Duration of Unit	16 days (4 weeks)

Insert priority standards below (include code). **CIRCLE or Highlight** the **SKILLS** that students need to be able to do and **UNDERLINE** the **CONCEPTS** that students need to know. **(address “supporting” standards in daily lesson plans)**

MGSE8.EE.8 Analyze and solve pairs of simultaneous linear equations (systems of linear equations).

MGSE8.EE.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.

MGSE8.EE.8b Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.

MGSE8.EE.8c Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.

Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom's
Analyze	Solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs	1/2
Solve	Systems of two linear equations in two variables algebraically & estimate solutions by graphing	2/3
	Real-world and mathematical problems	2/3

Step 5: Determine BIG Ideas (enduring understandings students will remember long after the unit of study)	Step 6: Write Essential Questions (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)
You can one, none, or infinite solutions when comparing two linear equations	What does the “point of intersection” mean?
Two or more actions are occurring simultaneously	How can I translate a problem situation into a system of equations?
	What does the solution to a system tell me about the answer to a problem situation?

Essential Unit Vocabulary

Systems of equations Point of intersection Infinite solutions

Next step, create assessments and engaging learning experiences