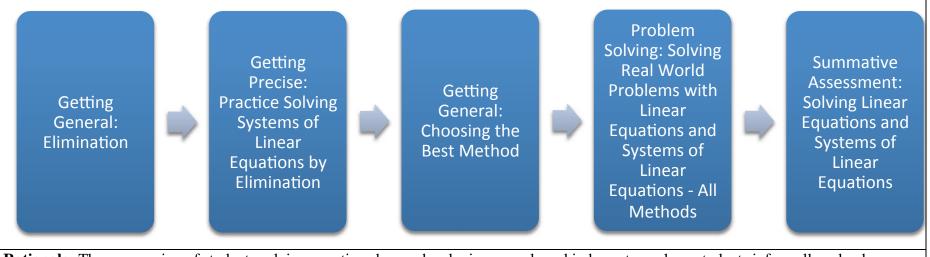


Common Core Math Unit Plan



MATH PE										
Unit Name:	Systems of Linear E	Cou	Course: CC Math 2			Time Frame: 4 Weeks (Approximately)				
Sub-Topics	Determining Types of Solutions in Systems of Linear Equations (One, Consistent, Inconsistent)									
	Writing Equations from Words & Solve Real-World and Mathematical Problems in Two Variables									
	Solving Systems of Equations by Graphing, Elimination, & Substitution									
Big Idea	• Systems of linear equations can be written to model problems involving rates, or constant growth and solved to offer									
	suggestions as to which option would be the best in certain scenarios.									
Story Board/ Unit Flow										
Concept #1: Solution to a System of Linear Equations	Getting General: Verifying Number of Solutions		Pract Sy: Ec	Getting Precise: Practice Solving Systems of Linear Equations Graphically		Problem Solving: Real World Problem Solving with Systems of Linear Equations - Graphing		Formative Assessmenet: Solving Systems of Linear Equations Graphically		
Concept #2: Solving Systems of Linear Equations by Substitution	Getting General: Types of Solutions	~	Getting Precise: Practice Solving Systems of Linear Equations by Substitution	•	Problem Solving: Solving Real World Problems with Systems of Linear Equations - Substitution		Concept #3: Solving Systems of Linear Equations by Elminiation		Getting General: Elmination	



Rationale: The progression of students solving equations began developing as early as kindergarten, where students informally solved problems such as +3 = 4 and continued through grade seven, where students formalized their conceptual understanding of what a variable means and increased procedural fluency in solving single-variable equations. The progression of "solving" will culminate in grade eight as students learn to write, analyze and solve one-variable and pairs of simultaneous linear equations in order to solve real-world mathematical problems algebraically and graphically.

Essential Questions:

- What is a solution to a pair of simultaneous linear equations?
- How can I use the structure of an equation(s) to determine the number and/or type(s) of solution(s)?
- How is solving a pair of simultaneous equations similar or different from solving a linear equation?
- Can an equation, or a system of linear equations model this real-life scenario?
- Which method of solving works best in each situation?

Key Vocabulary	Prior Knowledge				
Solve Isolate Transform Manipulate Verify Equation	Solve Multi-step Equations (including combining like terms, distributive				
Expression Distributive Property Constant	property and variables on both sides)				
Variable Coefficient Evaluate Intersect Solution	Graphing Linear Equations				
Eliminate Substitute Graph Function Rate of Change	Substitution				
Like Terms Inconsistent Solution Coincident	Distributive Property				

