Week Plan - Nov 18-22 Algebra 1 B

Monday -

- Warmup: Soft PW **pg 85 #1** SOLVE on clean paper by SUBSTITUTION.
- **Notes** on ELIMINATION method by using online dynamic classroom **example video # 1**
- Complete **#2-4 on pg 85** on paper to show need for rearrange for setup form in elimination method --finish for homework

Tuesday -

- Warmup - Soft PW **pg 85 #5-6** SOLVE on clean paper by ELIMINATION Method.
- **Notes** on ELIMINATION method by using online dynamic classroom **example video # 2** that includes the need for step of **multiplication first**
- Complete **#7-9** on pg 85 on paper - finish for homework

Wednesday -

- Warmup - Soft PW **pg 85 #11 SOLVE** on clean paper by ELIMINATION Method.
- Notes on ELIMINATION method now can show **SPECIAL CASES** -- no solutions or ALL solutions so DISCUSS cases including the graphs they would produce --- show on graphing calculation the error that occurs on the “calc--intersection” program.
- Complete **#12-14** on pg 85 on paper - finish for homework

Thursday -

- **Kuta** Day - use handout and work in small groups on solve by elimination
- https://cdn.kutasoftware.com/Worksheets/Alg1/Systems%20of%20Equations%20Elimination.pdf
- HINT you may want to use videos to run in background with the stop/go method shown the day prior.

FRIDAY - Review Kuta worksheet progress and have short exit ticket on elimination method.

Week Objective/Learning Target & Sample Examples

Section 5.3: Solving Systems of Linear Equations by Elimination

Common Core State Standards: A.CED.A.3, A.REI.C.5, A.REI.C.6
Learning Target: Solve linear systems by elimination.
Success Criteria

- Add or subtract linear equations.
- Solve a system of linear equations by elimination.
- Explain why the elimination method produces a valid solution.
- Solve real-life problems using elimination.

Example 1
Students will solve a system of linear equations by elimination.
$3x + 2y = 4$
$3x - 2y = -4$

Example 2
Students will solve a system of linear equations that requires multiplication.
$-10x + 3y = 1$
$-5x - 6y = 23$

$-10x + 3y = 1$ Equation 1
$-5x - 6y = 23$ Equation 2

SOLUTION

Step 1 Notice that no pairs of like terms have the same or opposite coefficients.

One way to solve by elimination is to multiply Equation 2 by −2 so that the coefficients of the x-terms are opposites.

$-10x + 3y = 1$		$-10x + 3y = 1$	Equation 1
$-5x - 6y = 23$	Multiply by -2.	$10x + 12y = -46$	Revised Equation 2

Step 2 Add the equations to eliminate the x-terms.

$-10x + 3y = 1$	Equation 1
$10x + 12y = -46$	Revised Equation 2
$15y = -45$	Add the equations.

Step 3 Solve for y.

$15y = -45$	Resulting equation from Step 2
$y = -3$	Divide each side by 15.

Chapter 5: Keystone Objective

ASSESSMENT ANCHOR A1.1.2 Linear Equations				
Anchor Descriptor		**Eligible Content**		**PA Core Standards**
A1.1.2.2	Write, solve, and/or graph systems of linear equations using various methods.	**A1.1.2.2.1**	Write and/or solve a system of linear equations (including problem situations) using graphing, substitution, and/or elimination. Note: Limit systems to two linear equations.	**CC.2.1.HS.F.5** **CC.2.2.8.B.3** **CC.2.2.HS.D.7** **CC.2.2.HS.D.9** **CC.2.2.HS.D.10**
		A1.1.2.2.2	Interpret solutions to problems in the context of the problem situation. Note: Limit systems to two linear equations.	