UNIT OF STUDY
#3

Title: solving linear equations of one variable **Subject/Course**: 9th Res. Math	**Length:** 2 weeks	
Topic: solve one step and multi step equations	**Grade:** 9th	**Designer: K. Henderson**

UNIT GOALS AND EXPECTATIONS

IMPORTANT CONCEPTS/UNDERSTANDINGS:	ESSENTIAL QUESTIONS:
- combining like terms - inverse operations - use of the distributive property - how to determine the least common multiple by factorization	- What is a coefficient? - What is an equation? - What is a solution? - How do you use inverse operation? - What does identity mean in math? [Identity for an operation or identity equation?] - What is the distributive property? - How do you find the least common multiple?
STUDENT LEARNING EXPECTATIONS: - LA.1.AI.2 - Translate word phrases and sentences into *expressions, equations*, and *inequalities*, and vice versa *SEI.2.AI.1 - Solve multi-step equations and inequalities with rational *coefficients* - numerically (from a table or guess and check) - algebraically (including the use of manipulatives) - graphically - technologically	
SPECIFIC DECLARATIVE KNOWLEDGE – What I know Vocabulary words – equation, solution, coefficient, inverse, multi step, identity, distributive, least common multiple.	SPECIFIC PROCEDURAL KNOWLEDGE – What I need to do - solve one step equation using add, subtract, multiply and divide using inverse operation and order of operations - determine if a number is a solution for an equation. solve equations - involving fractions - using distributive property - that are identities [identity equations] - that have no solution

UNIT ASSESSMENTS
(Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)

open response question
- requiring the student to use multi step equations (application)

Traditional Assessments:	Other Evidence of Learning:
independent practice worksheets Test warm-up or homework quizzes	notes guided practice observation marker board review

ACTIVITIES AND LEARNING EXPERIENCES	Resources
1. 4 step vocabulary to introduce key words from the unit.	4 step worksheet
2. Lesson 3.3 solve one step equations – use inverse operation "do the opposite"	Algebra's Cool DVD program Unit B
3. Lesson 3.4 and 3.5 – solve multi step equations * remind about cows and wolves fenced together. * Use the Disney song "I like to move it" * Checking your work. *There is not always an answer. 4. marker board review – group review	Algebra's Cool DVD program Unit B marker board & eraser

Career Connections
cashier, meteorologist, nurse, computer technician, statistical analyst