Grade Level 9th Algebra I A Teacher/Room		<u>n</u> : S. Pinson/Room 182	Week of: August 29 – September 2, 2016	
Unit Vocabulary: see attached				
Instructional Strategies Used: direct instruction, independent study, interactive instruction, partners				
<u>Day 1</u>	<u>Day 2</u>	Day 3	Day 4	Day 5
Common Core Standard(s) : MGSE9-12.A.CED.1 Create equations and inequalities in one variable and use them to solve problems.	Common Core Standard(s) : MGSE9-12.A.CED.1 Create equations and inequalities in one variable and use them to solve problems.	Common Core Standard(s) : MGSE9-12.A.CED.1 Create equations and inequalities in one variable and use them to solve problems.	Common Core Standard(s) : MGSE9-12.A.SSE.1a Interpret parts of an expression, such as terms, factors, and coefficients, in context.	Common Core Standard(s) : MGSE9-12.A.REI.1 Using algebraic properties and the properties of real numbers, justify the steps of a simple, one-solution equation.
EQ Question : How do you solve multi-step equations?	EQ Question : How do you solve multi-step equations?	EQ Question : How can you solve multi-step equations?	EQ Question : How do I interpret parts of an expression in terms of context?	EQ Question : How do you justify solving multi-step equations?
Mini Lesson: Order of Operations	Mini Lesson: USA Test Prep – Computer Lab	Mini Lesson: Properties of Equality	Mini Lesson: USA Test Prep – Computer Lab	Mini Lesson: Order of Operations
Activating Strategies: Challenging Equations (Groups)	Activating Strategies: Right/Wrong: Given a solution, students need to decide if it was solved correctly.	Activating Strategies: Questions for the Teacher	Activating Strategies: Pair Activity – Solving Equations	Activating Strategies: Person Puzzle - Angélique Kidjo (Evaluating Expressions) - partners
 Lesson: Solving proportions Go over last Friday's WS Steps on solving equations(graphic organizer) Guided Practice Problems Assignment Friday Worksheet 	Lesson: Review for Unit 0 Test 1. Review Properties with Power Pt 2. Classwork – Review Sheet 3. Go over review sheet	Test: Unit 0 – Solving Equations	Lesson: Algebraic Expressions – evaluate and review vocabulary 1. Notes 2. Guided Practice Problems on evaluating expressions 3. Assignment 4. Ticket-out-the-door	Lesson: Justifying Solving Equations 1. Collect Friday Worksheet 2. Quiz over Friday WS 3. Guided practice over justifying 4. Assignment
Resource/Materials: Powerpoint, worksheets, graphic organizer	Resource/Materials: Powerpoint, worksheets	Resource/Materials: Powerpoint, tests	Resource/Materials: Powerpoint, worksheets	Resource/Materials: Quizzes, worksheets
Differentiation: Content/Process/Product: graphic organizer, guided practice Grouping Strategy: heterogeneous Assessment: Friday WS	Differentiation: Content/Process/Product: graphic organizer, USATestPrep Grouping Strategy: Assessment:	Differentiation: Content/Process/Product: graphic organizer Grouping Strategy: Assessment:	Differentiation: Content/Process/Product: graphic organizer, USA Test Prep Grouping Strategy: partners Assessment: informal	Differentiation: Content/Process/Product: graphic organizer Grouping Strategy: partners Assessment: Friday WS
Assessment : Formative: thumbs up/down Summative:	Assessment : Formative: thumbs up/down Summative:	Assessment : Formative: thumbs up/down Summative: Test – Unit 0	Assessment : Formative: ticket-out-door Summative:	Assessment : Formative: thumbs up/down, quiz Summative:
Homework: WS :Solving Proportions	Homework: Study!!	Homework: none	Homework: WS: Day1 Algebraic Expressions	Homework: WS:Day4 Justifying Steps in Solving Equations

- Algebra: The branch of mathematics that deals with relationships between numbers, utilizing letters and other symbols to represent specific sets of numbers, or to describe a pattern of relationships between numbers.
- Binomial Expression: An algebraic expression with two unlike terms.
- Capacity: The greatest volume that a container can hold. Circumference: The distance around a circle.
- **Coefficient**: A number multiplied by a variable.
- Constant Term: A quantity that does not change its value.
- Expression: A mathematical phrase involving at least one variable and sometimes numbers and operation symbols.
- Factor: When two or more integers are multiplied, each integer is a factor of the product. "To factor" means to write the number or term as a product of its factors.
- Integer: The set of numbers ...,-3,-2,-1,0,1,2,3,...
- Irrational Number: A number whose decimal form is nonterminating and nonrepeating. Irrational numbers cannot be written in the form a/b, where a and b are integers (b cannot be zero). So all numbers that are not rational are irrational.
- Monomial Expression: An algebraic expression with one term.
- Perimeter: The sum of the lengths of the sides of a polygon.
- Rational Number: A number expressible in the form a/b or a/b for some fraction a/b. The rational numbers include the integers.
- Standard Form of a Polynomial: To express a polynomial by putting the terms in descending exponent order.
- Term: A number, a variable, or a product of numbers and variables.
- **Trinomial**: An algebraic expression with three unlike terms.
- Variable: A letter or symbol used to represent a number.
- Volume: The amount of space occupied by an object.
- Whole numbers: The numbers 0, 1, 2, 3,