

Grade: 8 Math 1Benchmark #: 8.2.2.1A Algebra equations		Mastery Check 3	
<u>State Language:</u> Represents real-world problems using: variables, symbols, expressions, one or two-step equations with rational number coefficients and constants.		<u>Student Friendly Language:</u> Solve expressions or one- and two-equations in real-world problems using variables with all four operations and integers. This includes inequalities also,	
<u>Concept (Students will know):</u> <ul style="list-style-type: none"> • TSW know what a variable, equation, expression is. • Distinguish between solving expressions and equations. • Know the process for solving one- and two-equations with the four operations • Know the process for solving expressions. • Know how to solve problems with all integers.(know the rules for integers) • Know the rules to solve inequalities. • Distinguish between solving equations and inequalities. • How to solve real-world problems by the four-step problem solving method. 		<u>Skills (Students will do):</u> <ul style="list-style-type: none"> • Solve problems involving all four operations of integers. • Solve real-world problems using one- and two-step equations stand point. • Solve problems using expressions. • Use concepts to solve non-routine problems that involve inequalities. • Write an equation from a written real-world problem. • Be able to choose which equation, expression listed that corresponds to the real-world problem given. • Solve real-world problems using the four-step problem solving model. 	<u>DOK Level:</u> 3
<u>Big Ideas:</u> Know how to interpret real-world problems and translate them into equations or expressions and solve. Know that there is a difference between solving problems with equations and expressions. Knowing how to solve equations or expressions if not in a real-world problem.			
<u>Essential Questions:</u> What are the four steps of the problem solving model? Does the answer that the student gets answer the real-world problem? How do you solve an equation?....expression?.....inequality? What is the difference between solving equations, inequalities and expressions? How do you translate the real-world problem into an equation or expression? How can you tell that a real-world problem is an inequality instead of an equation?			
<u>Core Materials</u> TEXT- Glencoe Pre-algebra book		<u>Supplemental Materials:</u> Work sheets from the resource material associated with the text book. Teacher generated worksheets "Hands-on Equations" manipulatives "Equations" game	
<u>Teaching Strategies:</u> Hands-on Equations Notes Teaching the steps for solving equations, etc. Guided practice Scaffolding			
<u>Mastery Check Items:</u>			