**Curriculum:** richard keyser

Learning-Focused Toolbox

**Date:** June 27, 2011 ET

**Teacher / Team Name:** The School District of Osceola County Algebra I Regular

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**Topic:** UNIT 1 EXPRESSIONS, EQUATIONS, and FUNCTIONS **Days:** 8

**Subject(s):** Math **Grade(s):** 8th, 9th, 10th, 11th, 12th

| Know: | Understand: | Do: |
|---|---|---|
| Key Vocabulary<br><br>Properties of expressions, equations and functions<br><br>Verbal to symbolic translations<br><br>Formulas:<br>• C = (5/9)(F-32)<br>• I = Prt<br>• D = rt<br>• P = I - E<br>• A = lw<br>• y = mx + b (equality and inequalities)<br><br>Difference between linear equations and inequalities<br><br>Problem solving strategies | Graphing, solving, and applying properties of expressions and equations used in modeling real-world situations. | evaluate and write expressions<br><br>Apply order of operations<br><br>Write equations and inequalities<br><br>Use a problem solving plan |

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**Which standards are students learning in this unit?**

MA.912.A.1.1 Know equivalent forms of real numbers (including integer exponents and radicals, percents, scientific notation, absolute value, rational numbers, irrational numbers).

MA.912.A.1.4 Perform operations on real numbers (including integer exponents, radicals, percents, scientific notation, absolute value, rational numbers, irrational numbers) using multi-step and real-world problems.

MA.912.A.1.5 Use dimensional (unit) analysis to perform conversions between units of measure, including rates.

MA.912.A.3.1: Solve linear equations in one variable that include simplifying algebraic expressions.

MA.912.A.10.1: Use a variety of problem-solving strategies, such as drawing a diagram, making a chart, guessing- and-checking, solving a simpler problem, writing an equation, working backwards, and creating a table.