Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 8* / Grade 8 (Math Regional Curriculum)

Wednesday, October 31, 2012, 1:46PM

Standard/Module: Proficiency with Equations: 8.EE.7 (Week 13, 9 Weeks)

Stage 1: Desired Results

Standards Focus

- Major (70%) 8.EE.5
  8.EE.6
  8.F.1
  8.EE.8 (F)
  8.G.5

Grade 8 Map

Standards

NYS: CCLS:Mathematics, NYS: 8th Grade , Expressions & Equations

8.EE Analyze and solve linear equations and pairs of simultaneous linear equations.

- 7. Solve linear equations in one variable.
- 7a. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form x = a, a = a, or a = b results (where a and b are different numbers).
- 7b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

Enduring Understandings	Essential Questions
Linear equations can have one solution, infinitely many solutions, or no solutions.	1. What part of the original equation reveals the number of solutions? 2. How can you write an equation with one solution, infinitely many solutions, or no solutions?

Critical Content

1. Linear equations
2. Equations with one solution
3. Equations with infinitely many solutions
4. Equations with no solutions

Skills	Vocabulary
1. Analyze and solve linear equations in one variable - With rational number coefficients	Tier 2: equivalent, finite, linear equation, infinite, solution, solve, variable

▪ With parentheses (Distributive Property) ▪ Like terms ▪ Variables on both sides 2. Generate examples of linear equations with one solution, infinitely many solutions, or no solutions.	Tier 3: coefficient, Distributive Property, like terms, no solution

Stage 2: Assessment Evidence

Assessments

Solving linear equations
Formative: Test: Written

Students solve linear (2-step) equations when one variable is unknown, including situations where like terms must be combined, or equations that must be expanded using the distributive property.

Students analyze linear equations to determine whether there is one solution, infinitely many solutions, or no solution.

Stage 3: Learning Plan

Learning Activities	Resources
Student learn to solve linear equations. Students are shown a set of equations to graph that each have only solution, and draw conclusions about their commonalities. Students are shown a set of equations to graph that each have infinite solutions, and draw conclusions about their commonalities. Students are shown a set of equations to graph that each have no solution, and draw conclusions about their commonalities.	www.illustrativemathematics.org www.illuminations.nctm.org

Differentiation Opportunities

Use graphic organizers to help students solve equations.

<< Previous Year

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