Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 6* / Grade 6 (Math Regional Curriculum)

Wednesday, October 31, 2012, 12:01PM

Standard/Module: Proficiency with Expressions and Equations 6.EE.5 (Week 7, 5 Weeks)

Stage 1: Desired Results

Standards Focus

- Major (70%) 6.NS.3

6th Grade CCS Map.pdf

Standards

NYS: CCLS:Mathematics, NYS: 6th Grade , Expressions & Equations

6.EE Reason about and solve one-variable equations and inequalities.

- 5. Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

Enduring Understandings	Essential Questions
1. Substitution can be used to determine whether an equation or inequality is true.	1. When is it necessary to actually solve an inequality?
2. Understand the differences between equations and inequalities (equations have a single solution and inequalities have a range of answers)	2. When is it necessary to use substitution?
	3. How do equations and inequalities differ?

Critical Content

1. Equation

2. Inequality

3. Numerical expressions

4. Variable

Skills	Vocabulary

1. Solving one variable equations. 2. Solving inequalities 3. Use substitution to determine if an equation or inequality is true. 4. Understand solving an equation or inequality as a process or answering questions.	Tier 2 expression base power notation factor variable term constant translate evaluate simplify sum difference product quotient formula substitution Tier 3 equivalent expressions exponent standard form exponential form factor form

	expanded form coefficient distributive property like terms inequality equation

Stage 2: Assessment Evidence

Assessments

Formative: Other: Quiz

Write an equation or inequality and prove your answer is correct by performing a check.

1.) Joey had 26 papers in his desk. His teacher gave him some more and now he has 100. How many papers did his teacher give him?

2.) If a booklet of stamps cost $11 and each stamp is $.44, how many stamps are in a book of stamps?

3.) Twelve is less than 3 times another number.

Stage 3: Learning Plan

Learning Activities	Resources
How Much Is That (Substitution of a variable) ? Look for ads in newspapers that give prices of groceries, electronics, toys, sporting goods, and other items that are of interest to your student. Use the ads to have your student write an equation. Suppose an ad shows a bicycle on sale for $80. Examples of equations are shown below.	http://engageny.org/common-core/ http://illustrativemathematics.org/

Examples: If you save $5 each week, what equation shows how long it would take to save $80? 5x 5 80, where x represents the number of weeks. If you already have $25, what equation shows how much more you will need to buy the bicycle? y 1 25 5 80, where y represents dollars. Help your child solve each of the equations. (x 5 16 weeks, y 5 $55)	www.livebinders.com/play/play/52180 http://illuminations.nctm.org/ http://www.mathsisfun.com/geometry/polyhedron.html http://www.korthalsaltes.com/

Differentiation Opportunities

Practice translating from words to equations or inequalities. This should be done in two to three different ability levels.

Practice solving tiered equations/inequalities.

Guided white board practice.

<< Previous Year

Last Updated: Thursday, October 11, 2012, 9:21PM

Atlas Version 7.2.6
© Rubicon International 2012. All rights reserved