Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 3* / Grade 3 (Math Regional Curriculum)

Wednesday, September 26, 2012, 2:45PM

Standard/Module: Proficiency with Base Ten 3.NBT.2 (Week 7, 6 Weeks)

Stage 1: Desired Results

Standards Focus

- Additional (10%) 3.OA.8, 3.OA.9

Grade 3 Proficiency Maps.pdf

Standards

NYS: CCLS:Mathematics, NYS: 3rd Grade , Number & Operations in Base Ten

3.NBT Use place value understanding and properties of operations to perform multi-digit arithmetic.

- 2. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

Enduring Understandings	Essential Questions
Fluency, accuracy, and efficiency with addition and subtraction Distributive, commutative and associative properties. Vertical and horizontal forms of addition and subtraction Reasonableness of an answer	How would you use the distributive, commutative, or associative property to solve addition or subtraction word problems?

Critical Content

Distributive, commutative and associative properties.

Place value

Vertical and horizontal addition and subtraction

Skills	Vocabulary
Fluency with addition facts Compose or decompose numbers Fact Families	Tier 2: Fluency, properties of operations, relationships Tier 3: Algorithms, Distributive, commutative, associative properties, compose and decompose numbers

Stage 2: Assessment Evidence

Assessments

Add and Subtract up to 1000
Formative: Test: Written

Provide students with 10 addition and subtraction problems (5 of each) and require that they show each step of the process in adding or subtracting. Watch for misconceptions in the work/steps.

Stage 3: Learning Plan

Learning Activities	Resources
"Close to 1000" or "Close to 0" are good games to help with this fluency. Use the NYSED Math Module "Sprints" routines.	www.illustrativemathematics.org www.illuminations.nctm.org www.engageny.org

Differentiation Opportunities

Provide graph paper to student who struggle to keep the place values lined up with vertical addition or subtraction. Provide instruction on decomposing numbers into their hundreds, tens and ones before subtracting as it may help students complete the problems more accurately.

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