Unit Map 2012-2013

Monroe #2 - Orleans BOCES (Regional Collaboration)

Collaboration / Math 4* / Grade 4 (Math Regional Curriculum)

Wednesday, October 31, 2012, 10:25AM

Standard/Module: Proficiency in Base Ten - 4.NBT.3 (Week 1, 6 Weeks)

Stage 1: Desired Results

Standards Focus

- Major (70%) Connects with 4.NBT.1 and 4.NBT.3

4th Grade Proficiency Map.pdf

Standards

NYS: CCLS:Mathematics, NYS: 4th Grade , Number & Operations in Base Ten

4.NBT Generalize place value understanding for multi-digit whole numbers.

- 3. Use place value understanding to round multi-digit whole numbers to any place.

Enduring Understandings

1. Multi-digit whole numbers can be rounded to any place by utilizing your understanding of the place value of each digit.
2. Rounding can be a useful tool one uses in real world math.
3. If you don't know place value, you cannot round.

Essential Questions

1. What are the steps you should go through when rounding?
2. What is the purpose of rounding?
3. Can you give a few examples of where rounding would be used in every day life?

Critical Content

1. Place value of digits in multi-digit whole numbers
2. Rounding multi-digit whole numbers to any place
3. Understand that a "5" in any place value implies the "half way" point within that place value
4. Understanding why the "process" of rounding works:

- Underline place value you are rounding to
- Make arrow to the right
- If number to the right is greater than or = to 5, then add one to place value
- If number to the right is less than 5, then leave place value alone

Skills

1. Students will identify the place value of each digit in a multi-digit whole number.
2. Students will use place value understanding to round multi-digit whole numbers to any

Vocabulary

Tier 2: place value, multi-digit whole number

place.	Tier 3: round

Stage 2: Assessment Evidence

Assessments

Round and Explain
Formative: Test: Written

Students are given numbers to round based on criteria for the place value to be rounded to, and students justify their answers/work. Students also examine rounding practices of a mystery student to determine whether the rounding was done correctly or not, and if not, what the error was and what the correct process would be.

Stage 3: Learning Plan

Learning Activities	Resources
Students work on rounding numbers and justifying their answers using "rounding rules." If there is a student textbook or internet article about rounding, ask students to cite the rules for rounding as they work on problems (ELA Common Core connection).	www.illustrativemathematics.org www.illuminations.nctm.org

Differentiation Opportunities

Use white boards or interactive white boards to help students with rounding. Also, the "Show Me" app or the
"Educreations" app for iPad/iPod touch is a good way for students to show their work and record their own voice explaining how they completed the task.

<< Previous Year

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