Math Minutes #4

Rigor, Relevance, and Relationships:

Focusing on doing the ORDINARY, extraordinarily.

Norton Elementary



The mission of Norton Elementary School is to educate and encourage every student to his/her highest potential through the acquisition of knowledge and appropriate behavior. This will lead to the development of the whole child and optimal student achievement with our local, national and world-class counterparts.



Constructed and Extended Re



Standard	Beginning Learner	Developing Learner	Proficient Learner	Distinguished Learner
4.NBT.1 4.NBT.2 4.NBT.3 4.NBT.5 4.NBT.6	Adds and subtracts up to three digits, uses place value to read and write numbers, and illustrates and explains calculations when multiplying and dividing.	Adds and subtracts, finds whole-number quotients to two digits, uses place value to compare numbers, and reads and writes numbers and uses expanded form.	Adds, subtracts, and multiplies fluently; finds whole-number quotients to four digits; represents numbers in expanded form to 1000; uses place value to order and compare numbers; and recognizes whole-number patterns in base ten.	Adds, subtracts, multiplies, and divides fluently; uses place value to symbolically order and compare numbers; represents numbers in expanded form; rounds to specified place values; and explains wholenumber patterns.

Post achievement level descriptors in your classroom.

Connect strategies and implementation through Number Talks



I wonder...I noticed... Have students REFLECT on their work.

Rubric posted in First Grade

Use a rubric to score responses. Post in your classroom.



Make rubrics a part of the routine.

Use manipulatives with your problem solving in ALL grades K-5 to help students SCAFFOLD their strategies and thinking



Allow students to use graphic organizers.









SEMI-









Organize and represent the math graphically

Reflect and Respond



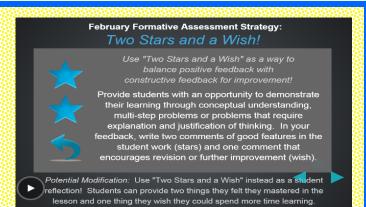
ABSTRACT Numbers only

Listen to students TALK about their math thinking?



Post, model, and use multiple problem solving strategies in your classroom? Confer with students about their thinking.

CONCRETE Draw a picture of the math: (symbols)



CONCRETE

I can use my five

senses with the math.

