

Math Empowers²

NCTM: Early Mathematics Fluency with CCSSM

"Students become mathematically fluent thinkers when they have many occasions to make sense of problems and apply their understandings toward increasingly sophisticated problems."

– Gabriel Matney, TCM Aug 2014

The Common Core math standards expect students to be fluent in mathematics through the deeper understanding of the processes. By immersing students in a math-rich environment of problem solving and modeling, they begin to speak the language of math similar to the ability of becoming fluent in a foreign language. Using **Number of the Day** activities, facilitate partner and whole class discussions around making the numbers in different ways to deepen the understanding. **Real-life word problems** will also offer opportunities for modeling different strategies and discussions about reasonability. Additional ideas to help primary students become creative mathematicians, ready to solve problems they encounter in their world, can be found in the attached **NCTM** article.

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mathematics

Problem of the Month

Our second **Problem of the Month** is titled **"Squirreling It Away"** and it can be found in the Cybrary. This task challenges students to reason about repeated subtraction in a word problem and to find the number of acorns left after giving set amounts to two different sets of squirrels. Students will use number operations, organized lists, and counting methods. There are five levels of complexity. Be sure to read through the Primary Version as well as Level A when planning.

Visit <http://www.insidemathematics.org> for more information.

B.U.I.L.D

Have you heard about BUILD? BUILD is a management system for Math Centers. Each letter stands for something students will "do" during your math period (or another designated time.)

- B: Buddy Games
- U: Using Manipulatives
- I: Independent Math
- L: Learning About Numbers
- D: Doing Math

EXTRA Ch.4 Choice Board Activities:

Missing Number

Cover-Up:

Investigations 3: Putting Together & Taking Apart (sessions 1 & 2). Starting with a set number of cubes, partners take turns hiding some and then using the remaining cubes to figure out how many are hidden.

Fact Family Sort:

Attached you will find a set of basic fact cards for sums & differences to 10. Similar to **"Word Sort,"** students work to improve math fluency by sorting each fact card under its proper heading.

Break Apart

Addends Cards:

Attached you will find a set of problems which I modified to print on 4 X 2 labels. Place each label on an index card creating 20 quick activities. i.e. Students randomly choose any 3 cards to solve.

The BEST thing about BUILD is that you can tweak



it to fit the needs of your students. Be sure to read the attached blog by Cassie Thompson for more details regarding BUILD implementation or visit...

<http://adventures-inteaching.blogspot.com/2011/10/building-math-workshop.html>