

- ◆ Pacing and Sequencing Changes
- ◆ Ideal Go Math! Lesson Reminder
- ◆ Mathical Award
- ◆ Engaging Videos



The definition of a good mathematical problem is the mathematics it generates rather than the problem itself.  
~ Andrew Wiles

Middletown Township Elementary Schools

Fourth Grade - First Quarter 2015

# Math Empowers<sup>4</sup>

## WELCOME BACK!

### Just a reminder.... Pacing and Sequencing Changes

As you may have noticed, the committee took your feedback into consideration and edited the pacing guide from last year. You will now teach **Chapter 5, Factors, Multiples, and Patterns** before **Chapter 4, Divide by 1-Digit Numbers**. You will then complete **Chapter 13, Algebra: Perimeter and Area** in the second marking period so that these heavily tested concepts are covered before state testing.

## MATHICAL

Have you heard about Mathical?  
It's the new math award for books. Mathical award winning books help foster a love and curiosity for math amongst readers in grades Pre-K through 12. For more information about Mathical click [here](#).



The **Mathical prize winner** for Grades 3-5 and Grades 6-8, published in 2014, is **Really Big Numbers** by Richard Evan Schwartz!



The Mathical Honor books (published 2009-2014) for Grades 3-5 are:

- ◆ Bedtime Math: This Time It's Personal by Laura Overdeck
- ◆ Blockhead: The Life of Fibonacci by Joseph D'Agnesi
- ◆ Edgar Allan Poe's Pie: Math Puzzlers in Classic Poems by J. Patrick Lewis
- ◆ The Rookie Bookie by L. Jon Wertheim and Tobias Moskowitz
- ◆ Numbed! by David Lubar

## Ideal GO Math! Lesson

Now that math class is **75 minutes long**, it should be a little easier to include all of the essential elements of the "Ideal" GO Math! lesson.

### Engage/Explore

#### I. Engaging Introduction & Practice - Perseverance!

- Engaging Intro (Video/Technology/SMART Board) including a problem from "Problem Solving · Application" section OR "Unlock the Problem"
- Guided Practice (Whole Group) - non-checked problems from "Share and Show"

### Explain/Elaborate

#### II. Formative Assessment (A few independent problems)

- "Share and Show" using Quick Check problems
- #### III. Differentiation based on Formative Assessment
- None correct – teacher group
  - Mostly correct – Independent Practice using "On Your Own" and "Problem Solving · Application" especially "THINK SMARTER" problems
  - All correct – enrichment
  - Choice Boards/Centers

### Evaluate

#### IV. Conclusion

- Use "Essential Question" in T.E. or "Common Core Math Interactive White Board Lesson"



## Need Help Engaging Your Math Students?

The math specialists have organized engaging videos for you on the Google Sheet, "[Go Math Lesson Resources](#)". If you find an online video that is fantastic, please email it your math specialist so it can be added to the shared document.

## EN · GAGE

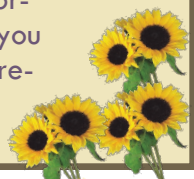
verb \in- 'gāj, en- \en·gageden·gag·ing

**A: to hold the attention of**

**B: to induce to participate**

(Merriam-Webster Dictionary)

In addition to sharing engaging videos, please forward any favorite interactive games. If each of you finds just one more great resource this year, our resource document will be virtually complete!



Best Wishes 4 a MATH-TASTIC School Year!