

*You are cordially
invited to the 3rd
Parent Series Event*



**EUREKA
MATH**

*Tuesday, November 15, 2016
6:30 - 7:15 pm
At TPS*

TPS Parent Series Essential Question

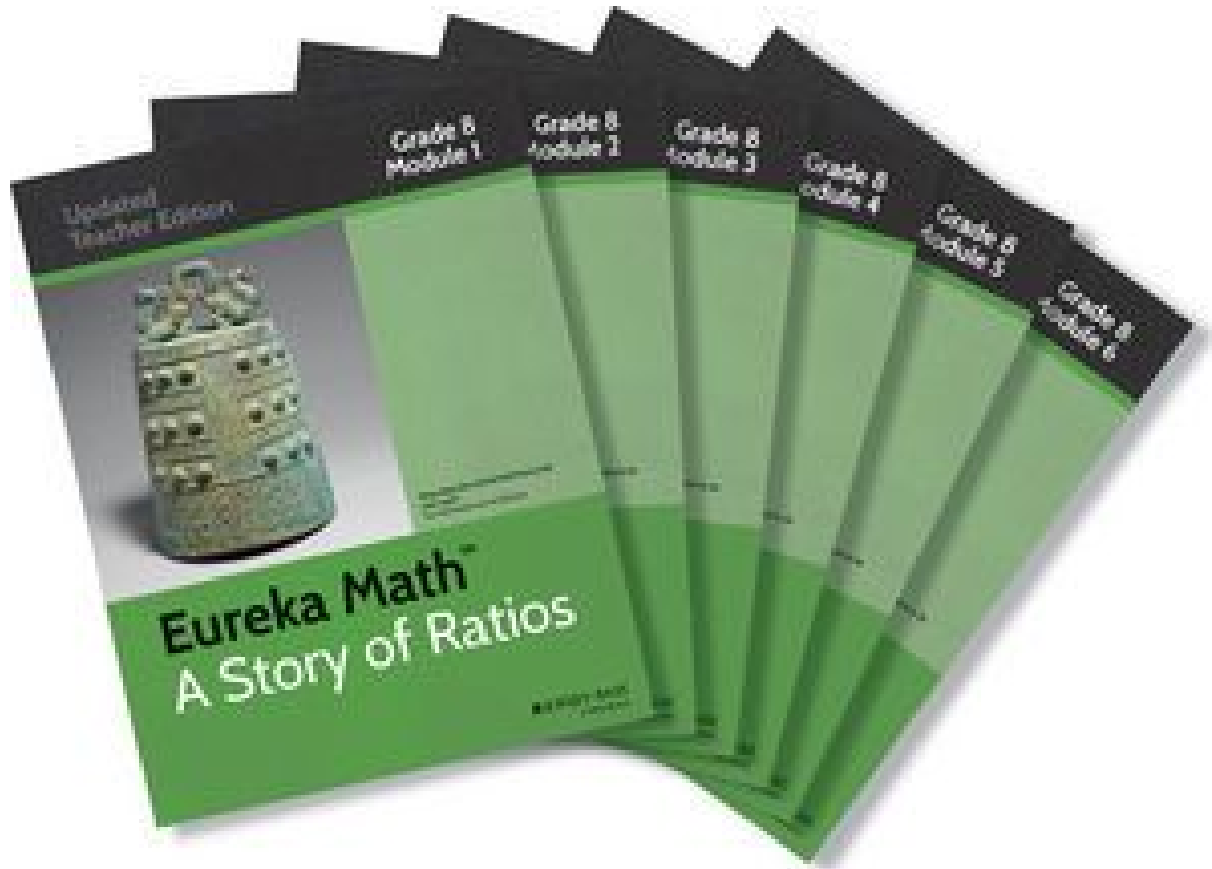
How do we, as teachers, parents and administrators, work together to educate our children in purposeful and meaningful ways?



TPS Parent Series Topics

- Online Tools
- PBIS (Positive Behavior Intervention and Supports)
- **Eureka Math**
- Yoga in the Classroom
- STEAM (Science, Technology, Engineering, Arts, Math)
- Social Media
- MCAS (Massachusetts Comprehensive Assessment System)





Presenter:
Jennifer Dolat

3rd Grade Elementary
School Teacher, Thomas
Prince School

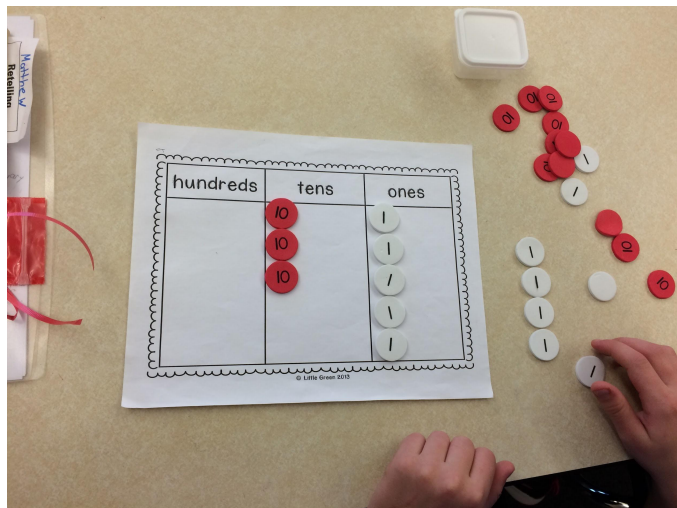
November 15, 2016

Eureka Math

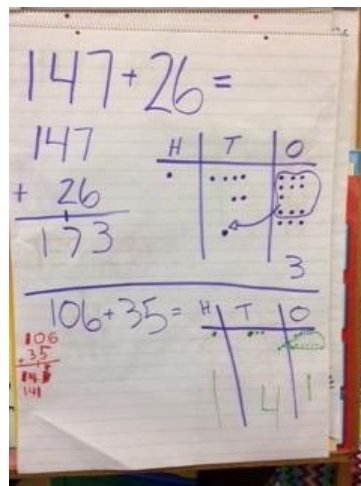
A math curriculum built around the concept that students need to know more than just what works to solve a problem, but WHY it works.

- Aligned with common core standards
- Beyond facts and formulas, it teaches students to think about math conceptually
- This is different from how we learned math!
- Students develop a deeper understanding of math concepts
- Curriculum follows a progression (concrete, pictorial, abstract)
 - Manipulatives, objects, real situations
 - Pictures/models (tape diagrams, ten frames, number bonds)
 - Symbols/standard algorithms used only after they can what is happening

Example of this progression: addition with regrouping



Start with concrete examples



Move to visual models

$$\begin{array}{r} 46 \\ + 25 \\ \hline \end{array}$$

Introduce abstract strategies

Lesson Components

Math Games

Fluency Practice

- Math facts, skip counting, sprints

Concept Development

- Teaching new skills and concepts using gradual release
 - Model, guided practice and independent practice

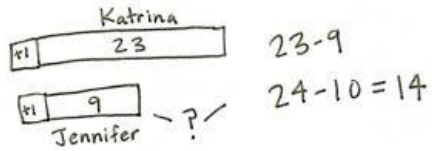
Application Practice

- Apply the concepts learned to solving word problems
 - Demonstrates students' ability to use critical thinking, problem solving and real world application skills

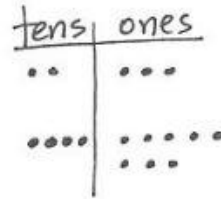
Teaches Strategies vs. Memorization

Students learn multiple strategies to solve problems

Katrina has 23 stickers, and Jennifer has 9. How many more stickers does Jennifer need to have as many as Katrina?



Jennifer needs 14 more stickers to have the same number as Katrina.



$$\begin{array}{r} 23 \rightarrow 20 + 3 \\ + 48 \rightarrow 40 + 8 \\ \hline 60 + 11 \end{array}$$

$$\begin{array}{r} 23 \\ + 48 \\ \hline 11 \\ \hline 60 \\ \hline 71 \end{array}$$

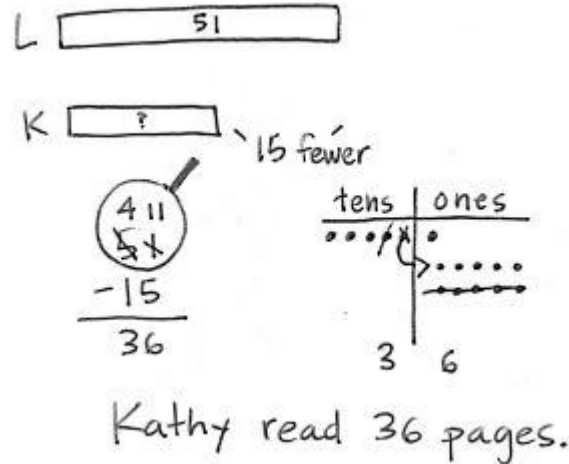
Teaches Strategies vs. Memorization

Students learn multiple strategies to solve problems

Kathy read 15 fewer pages than Lucy.

Lucy read 51 pages.

How many pages did Kathy read?



Not every strategy works for every student

..... and that's OK!

It gives them a tool box to succeed!

Eureka is only one of many tools

..... It is part of how I teach math to my students, but not the only source of information and practice.

Additional Websites and Resources

<https://greatminds.org/math>

www.pbis.org

www.centerforparentingeducation.org

www.jumpstart.com

www.nea.org/parents

www.edutopia.org/parent-leadership-education-resources

Questions



Next Parent Series Event

Yoga in the Classroom

Tuesday, December 13, 2016

6:30 - 7:15 pm