



COLUMBUS STATE  
UNIVERSITY

# NOTES 2 NERDS

*The official newsletter of the Math Collaborative*



*Join us for engaging professional learning. [Register now!](#)*

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## Our Mission:

The CRMC's mission is to improve math education for all students in our area by developing teacher leaders through deepening their content knowledge, developing best practices, and using available resources to improve student outcomes and experiences.



## To do this, we must:

Provide quality teacher growth experiences through continuous collaboration - in and out of the classrooms - with a focus on teachers' needs in support of student growth.



# PROFESSIONAL LEARNING OPPORTUNITIES



From Calculators to Thinkers:  
Meeting the Needs of the 21st Century Learner  
by Problem Solving Through Math Standards  
for mathematics teachers of Grades 3-5

## Problem Solving Using Place Value - Adding and Subtracting

### Explore

Teachers will receive just-in-time content ideas for teaching problem solving with place value, multiplication, and division.

You will experience research-based practical approaches to guide students' understanding through discovery, modeling, and the facilitation of mathematical connections.

### September 27, 2023

8:30 AM to 3:00 PM  
Frank Brown Hall, Classroom 1010

### Contact Us

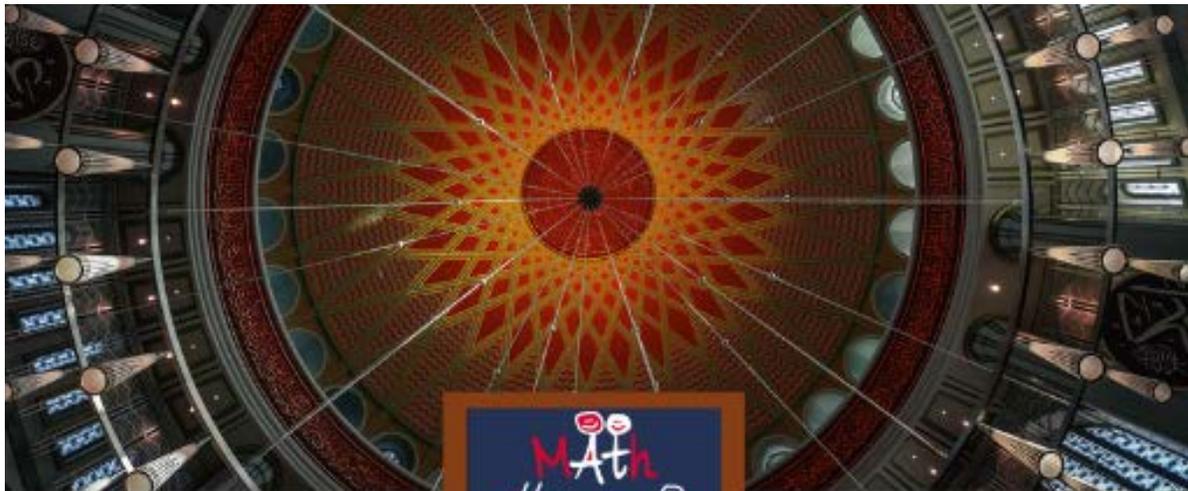
-  706.565.1475
-  <https://www.columbusstate.edu/crmc/events.php>
-  Teacher Needs Survey



**DID YOU KNOW....**  
OUR UPCOMING EVENTS FOR THE ENTIRE ACADEMIC YEAR  
ARE ALWAYS POSTED ON THE CRMC WEBPAGE.  
VISIT US ANY TIME!  
[HTTPS://WWW.COLUMBUSSTATE.EDU/CRMC/EVENTS.PHP](https://www.columbusstate.edu/crmc/events.php)



# UPCOMING PROFESSIONAL LEARNING OPPORTUNITIES



This workshop will focus on  
6th and 7th grade mathematics. Unit 1.  
from the Georgia Mathematics Curriculum:

## Ratio & Proportional Reasoning



### EXPLORE

- JUST-IN-TIME CONTENT FOR 6TH AND 7TH GRADES, UNIT 3
- EXPLORE RICH TASKS
- LEARN HOW TO MAKE CONTENT CONNECTIONS TO PREVIOUS CONCEPTS TO HELP STUDENTS ESTABLISH DEEPER UNDERSTANDING
- EXPLORE NEW TEACHING STRATEGIES THAT PROMOTE UNDERSTANDING - INSTEAD OF MEMORIZATION

### TUESDAY, OCTOBER 3, 2023

8:30 AM - 3:00 PM  
FRANK BROWN HALL  
CLASSROOM 1010

### CONTACT US

 706.565.1475

 [HTTPS://WWW.COLUMBUSSTATE.EDU/CRMC/EVENTS.PHP](https://www.columbusstate.edu/crmc/events.php)

 [TEACHER NEEDS SURVEY](#)



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# CROSSING

## *The Chattahoochee*



As educators, one of the most important things we can do is make learning relevant for students. This night challenges the perceived boundaries of Art, Mathematics, and History.

You will be challenged with the "why!"

You will be asked to create solutions for the "how!"

You will appreciate the Chattahoochee River for the force it is in creating the world we teach and walk in every day. We will provide light food and finish the night on the Chattahoochee River. Space is limited!

SEPTEMBER

**28, 2023**

**5:30-7:30PM**

IN PARTNERSHIP:



ENTRY

**FREE**

( BUT REGISTRATION IS REQUIRED)



SCAN HERE TO REGISTER

*OR*

CLICK HERE TO REGISTER

[HTTPS://COLUMBUSSTATE.LIBCAL.COM/EVENT/1174050](https://columbusstate.libcal.com/event/1174050)



# TEACHER RESOURCES



Contributed by  
 Hope Phillips  
 Resource Specialist,  
 Grades 6-8

# MATHIGON

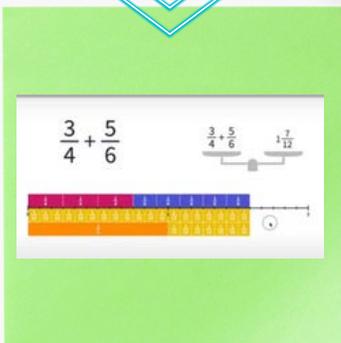
## ANIMATED APPLETS AND LESSONS

- Beautiful, rich applets that explain a variety of concepts (elementary through high school)
- Videos explaining how to use the applet.
- Pre-made lesson templates using the applets.
- Search tool that helps narrow your time finding applets.
- Scroll to the bottom of the landing page to watch videos about using all of the Polypad electronic manipulatives.

Below are a few samples of the great resources you will find on the Mathigon site:

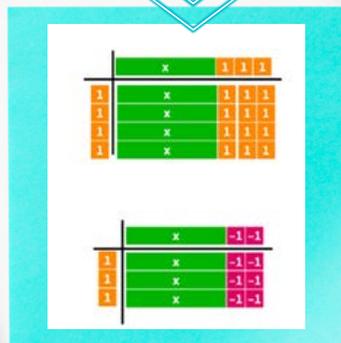
### FRACTION ADDITION

Use fraction tiles and the balance scale (the scale balances!) to visualize fraction addition problems.



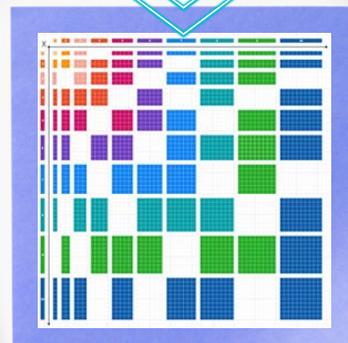
### FACTORING QUADRATICS

Use the premade templates from Mathigon or create your own problems and solve them using the online algebra tiles like the images below.



### MULTIPLICATION TABLE

Interact with this area-model-of-multiplication table by filling in the missing products.





## DIRECTOR'S NOTES

by Peter Anderson  
CRMC Director

# SHOULD WE REVIEW BEFORE TESTS?

One of the blessings of working at the Mathematics Collaborative is that we work with teachers. It is also a great responsibility.

This question came in an email this past week:

"and . . . you mentioned we shouldn't be doing review guides and review days. Can you please share why?"

Here was my reply:

First - every teacher has to judge what is best for the students they teach.

Now to your question:

If teachers do the tasks and use thinking procedures, they are essentially spiraling the course of study. Each task touches on multiple standards. You are "reviewing" every day, but it is in a way in which the student develops and attaches relevance to the math content standards.

Importantly, REMEMBER that the primary standards are the process standards, so - how do you "review" those standards? (By using the tasks!)

In the short term, reviewing gives you a bump in skill-based activities. It reflects an artificial bump in a student's performance. Liken it to having a cup of coffee or an energy drink to get you going; it is not sustainable for an extended period. Reviewing for a particular skill is ultimately - unproductive. This is evidenced by the experiences of the teachers themselves.

How often have you heard a teacher comment that sounds something like this...  
"My students knew this last week. It was like we never even covered the material."

In the long run (and this is hard for teachers), your students are better served by being engaged in thinking and learning.

In a follow-up discussion with the teacher, her team decided that they would do a review day but that the review would be *task-based*.

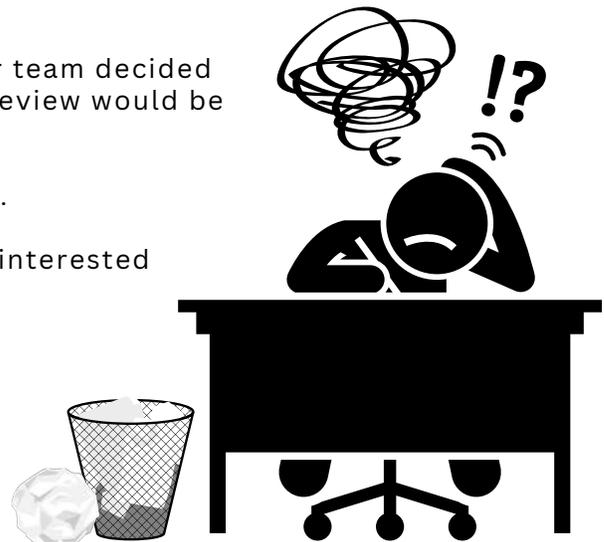
Please let us know your thoughts on this topic.

We at the Mathematics Collaborative are also interested in your questions about this and other topics.

We are pulling for you every day!

Happy Maths,

Pete



# COMMUNITY EVENTS

MARK YOUR CALENDAR!

## Brookstone School Math Tournament



BE  
THE  
ONE

BROOKSTONE SCHOOL

**Thursday, November 9, 2023**  
**8:30AM - 12:30PM**

Brookstone Campus | For Grades 4-5

Each school may register one team of 6-8 participants. \$40 entry fee per school.

Snacks will be provided to students and sponsors.

Tournament will have a full team competition and a ciphering portion format. Top five teams will be recognized.

Deadline to register:  
November 3, 2023

[Click here for the  
Registration Form](#)

For more information,  
contact Lisa Presley  
(lpresley@  
brookstoneschool.org)

## Columbus State University Afterschool Enrichment Program is Hiring!

- ✓ Serving students K-12
- ✓ Open roles include site teachers, community enrichment instructors, and learning support professionals (ie, parapro or college students)
- ✓ [CLICK HERE for this job opportunity!](#)



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# MAKE IT COUNT! SCHOOLS NEEDED



We need schools like yours to help us  
**Make It Count! (2nd Grade)**



PLAY  
COUNTING  
GAMES

HELP  
CHILDREN  
LEARN

MAKE A  
DIFFER-  
ENCE!

Questions?

[www.columbusstate.edu/crmc](http://www.columbusstate.edu/crmc),

email: [anderson\\_peter2@columbusstate.edu](mailto:anderson_peter2@columbusstate.edu), or 706-565-1475



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Click here to read more about our website:

[Columbus Regional  
Mathematics Collaborative  
Columbus State University](#)



Keep the  
Math Magic Going!  
Pledge your support!



*click here!*

Click the icons below to follow us on social media:



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