

Notes 2 Nerds

January 9, 2023

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You are asking - we are answering!...
(click here to give us your feedback):

[Saturday Professional Development Survey.](#)

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Teacher Development and Consulting

Upcoming Events:

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Director's Notes



Choosing a Pineapple and Inflection Points in Education



Over the holiday, I had many joyful and fascinating experiences. One experience was with Chatbot GPT. It was unexpected. As I stood in the produce section of a local market, a young woman next to me asked her phone, "Explain to me *the way my mother would*, the best way to choose a pineapple?" I didn't think anything of it at the moment but as I went to the checkout (one with an actual human being), she queued behind me, pineapple in the basket, asking her phone - "Tell me as if I have never chosen a wine, what I should choose to go with chicken and pasta?" I'm accustomed to folks talking to Siri, Alexa, or Google, but this seemed different. I made a mental note of it and did what any well-adjusted self-respecting 50-something-year-old technology immigrant would do - I asked my son about it in our next phone call. He said it must have been an AI chatbot. *Hmm, I thought. - I hope it gives better advice to the young lady than the chatbot I encounter from credit card or insurance companies.*

This past Saturday, at an academic event, I talked to a teenager who excitedly spoke about the possibilities of Chatbot GPT. She explained how it could help her understand complicated things, help her begin her research, and how fun it is to ask silly questions. I asked her if she had used it for her schoolwork? She explained, "Of course! Lots of students do." Did she use it to write papers I queried? She said, "Yes, at times," and continued explaining that it helped her get started, but she didn't think it would be very good at writing finished essays. If you asked the chatbot she offered, it would give you a bibliography! I thought - This AI machine is a potent tool! She encouraged me to try it and showed me how to log in. She then thoughtfully cautioned me that no matter what a machine tells you, it is always essential to check multiple sources. The advice made me smile as much as it warmed my heart for her looking out for me (*if only more people my age had this young lady's wisdom for checking various sources*).

I played with the chatbot over the weekend and realized it has limitations, but it could be a helpful tool in many ways. The ease and accessibility to information and synthesis that this chatbot provides will ultimately change a lot of approaches we take in education (*side note: it is fun to post silly questions too*).

I've been teaching long enough to remember the debate about whether or not students should be allowed to use calculators; soon after, graphing calculators came along. Now, if you are holding a phone, you can solve any mathematical problem, from simple addition - to integral calculus - to probability. Math teachers have been dealing with the onslaught of technology for years. I don't have confidence we are the model education folks should use, but it has changed how we teach, what we teach, and when we teach concepts.

This chatbot GPT will do the same for many of our brother and sister subjects. As educators, we must continually ask ourselves these questions anyway. For example, students have consistently asked in math classes at some point - "When are we ever going to use this stuff?" I can see the same happening in literature and social study classes.

I read somewhere just recently that language is how human beings understand themselves and the world, and that writing is how human beings understand uniquely. So, I'm curious how often in math classes, teachers impose a particular view or process of mathematics without allowing the students to express their understanding uniquely. In this approach of inquiry and expression, teaching and learning will remain relevant, necessary, and valuable. Also, I wonder - How do you pick out a perfect pineapple? But for now, I prefer just asking folks in the produce aisle, not Mr. AI Bot.

Happy Maths,

Pete



Professional Learning and Cool Teacher Stuff

Grades K-5:

We don't recommend professional development lightly.
This is an exception you may want to consider -
and it's free!

Christina Tondevold's Virtual Math Summit:
February 25th and 26th.

Here is a list of speakers:

<https://virtualmathsummit.com/speakers/>

How to register:

[link:https://virtualmathsummit.com/register/](https://virtualmathsummit.com/register/)

High School:

Math Medic is a gift to high school math teachers.
Teachers will find structured lessons using the EFFL
approach (you will want to read this.)

These are not worksheets but lessons.

(Thank you, E. Braddy, for suggesting these in our last workshop!)





Professional Development Opportunities



REGISTER TODAY!



ALGEBRA – H.E.W.T.!

(HOW TO ENGAGE
WITH TASKS)

Who: High School Teachers*

When: Thursday, January 19, 2023
8:30 AM to 3:00 PM, EST

Why: This year's focus is Algebra 1. We will provide support in methods and content that will aid teachers of Algebra 1.

The approach we take will benefit all high school teachers. We promise to engage and challenge you by experiencing proven strategies to engage your students and ignite your curiosity as a mathematician and teacher.

Our topics include:

- Activities to engage students and improve student dialogue;
- Just-in-time delivery of Algebra topics you will use in the classroom tomorrow and as you move into next year;
- Content development - allowing you to delve into dusty, old math topics with fresh eyes and new appreciation for how to task it up!

***DO NOT WORRY IF YOU ARE NOT TEACHING ALGEBRA CURRENTLY; THIS WORKSHOP WILL ENGAGE TEACHERS OF ALL CLASSES.**

[Click here to register or scan the QR below:](#)



**Scan
me!**



Professional Development Opportunities



GUIDED MATH:

A framework for your math block

Who: Grades K-2

When: Tuesday, January 24, 2023

Where: Frank Brown Hall, CSU Mathematics Collaborative
Classroom 1010

Why: Let's re-awaken the math instruction block, increase student engagement, making math exciting for the students (and fun for teachers too!)

We will engage in the model and components using an invigorated guided math approach, as well as explore resources and activities to build student number sense that includes:

- Math warm-up activities;
- Independent center activities;
- Building a math foundation;
- How to help bridge academic gaps ;
- Creating meaningful math experiences

Let students become active learners and empowered math explorers with guided math!

Register now by clicking [here](#) or by scanning the QR below:



**Scan
me!**

Free Admission for:
CSU Students
Muscogee County
Harris County
Russell County
Delta Kappa Gamma
Members
St. Anne Pacelli
Calvary Christian



Professional Development Opportunities



**EMBRACING CHANGE IN SMALL STEPS TO
MAKE A BIG DIFFERENCE
(WITHOUT SPENDING HOURS IN PREPARATION)**

Who: Middle School Math Teachers

When: Wednesday, January 25, 2023
8:30 AM to 3:00 PM, EST

Where: Frank Brown Hall, CSU Mathematics Collaborative,
Classroom 1010

Why: Join us for the third in a year-long series of workshops! Hope Phillips will help you leverage the power of small content additions.

It's a new year (on the calendar, at least)! Maybe you resolved to try something new.

Would you like a few new instructional strategies to add to your toolkit? Join us to learn ways to improve students':

Number sense skills; Algebraic reasoning skills; Equation-solving skills;

While...

Increasing student engagement; Encouraging math discourse; Filling in knowledge gaps;
Promoting reasoning instead of memorization

Don't worry if you didn't attend the previous workshops. We look forward to seeing you at this one! ALL teachers of math-related subjects would benefit from this professional development. Register today by scanning the QR code or by visiting the following registration website:

<https://columbusstate.libcal.com/event/9997042>



Free Admission for:
CSU Students
Muscogee County
Harris County
Russell County
Delta Kappa Gamma
Members
St. Anne Pacelli
Calvary Christian



Professional Development Opportunities



TRY-ANGLES, SQUARES, AND RECTANGLES, OH MY!

IT'S A NO-FEAR GEOMETRY EXPLOSION!

Who: Grades 3-5

When: Thursday, January 26, 2023

Where: Frank Brown Hall, CSU Mathematics Collaborative Classroom 1010

Why: We promise to engage and challenge you by experiencing proven strategies to engage your students and ignite your curiosity as a mathematician and teacher.

Free Admission for:
CSU Students
Muscogee County
Harris County
Russell County
Delta Kappa Gamma
Members
St. Anne Pacelli
Calvary Christian

Join Us!

Our topics include:

Active thinker problem solving;

Vocabulary building;

Activities to engage students and improve student dialogue;

Just-in-time delivery of Geometry topics you will use in the classroom tomorrow and as you move into next year;

Content development - allowing you to delve into dusty old math topics with fresh eyes and a new appreciation for how to task it up!

Register now by clicking [HERE](#) or by scanning the QR below!



SCAN ME



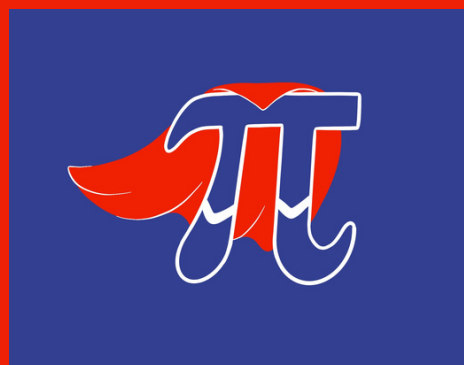


Annual Math Master's Competition Saturday, March 11, 2023

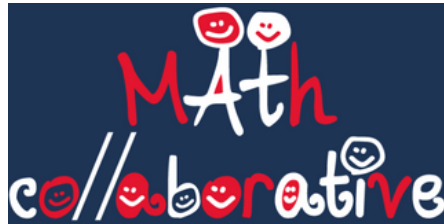
Math Masters is a middle-grade math competition supporting the growth and challenging the minds of students.

Teams work together to solve task-based math problems.
The top three teams take trophies back to their schools.

The cost is \$60 per team and **only a few seats remain!**
Use our [registration link](#) or scan the QR below:



HEY!!
We are talking to you
Master Teachers!
Sign up to volunteer!!
Volunteer Registration



Join Us

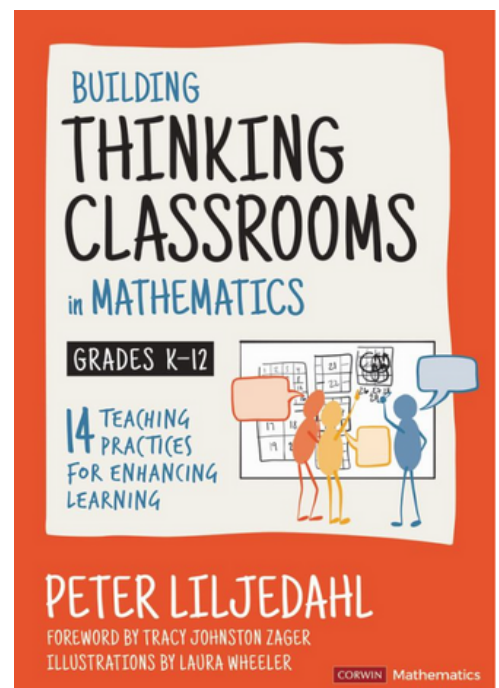


BUILDING THINKING CLASSROOMS COHORT

- ➡ Are the things you are doing in class not connecting with students?
- ➡ Would you like to engage your students more deeply?
- ➡ Are you ready for a change that works?
(I know you have heard this before.)

So, kick the tires and see if the promise fits.
It costs nothing but your willingness to participate.
We meet about once a month, after school, at Frank Brown Hall. We develop and share lessons for teaching your subject. We are looking to grow our Building Thinking Classroom Cohort with High School and Middle School teachers.

[Resource Link](#)



If you are interested,
contact Peter Anderson:
anderson_peter2@columbusstate.edu



'Make It Count!' WANTS YOUR SCHOOL

What is it?

The 'Make It Count' Project (MIC) aims to improve math fluency in second graders by building a foundation for sustained growth in mathematics. The partnership between Partners in Education and the Mathematics Collaborative (CRMC) @ Columbus State University pairs schools with volunteers who will visit second-grade classrooms to provide engaging and fun activities designed to build math fluency.

Interested?

Here is What You Need:

- Volunteers (CRMC and PIE will help recruit)
- Supervised space
- 'Make It Count' kit
- Identify students to participate
- School Point-of-Contact



Call for Volunteers!

You will need to:

- Attend one training session;
- Be available for one-hour each week at the designated time;
- Commit to being available from the first of November 2022 until the end of March 2023 (18 school weeks.)

Interested?

Contact the Mathematics Collaborative:

www.columbusstate.edu/crmc
email: crmc@columbusstate.edu or
phone: 706-565-1475



2ND ANNUAL CCTM CONFERENCE

2023A



DR. LYA SNELL

GUEST SPEAKER

Dr. Lya Snell serves as the Georgia Department of Education's Mathematics Program Manager, where she works to ensure that all students have access to high-quality mathematics programming throughout Georgia.

TOPIC:

THE NEW MATH STANDARDS

AND YOU!

FOR MORE INFORMATION, CONTACT:

SHEFFIELD.DACIA.L@MUSCOGEE.K12.GA.US -OR-
BARBER.CAROLYN.A@MUSCOGEE.K12.GA.US

FEBRUARY 22, 2023A

CSU'S FRANK BROWN
HALLA

5:30A - 8:30PM ET

SCAN HERE TO REGISTER!



WE NEED PRESENTERS!

SCAN HERE TO SUBMIT A PROPOSAL!





Click here to read more about our website:

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

Click the icons below to follow us on social media!



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