Teaching math this year and not sure where to start? Don't panic! We've got your back!

Due to the severe math teacher shortage the USA faces this upcoming year (2022-23), many teachers not certified to teach math are now being asked to teach math. Many of these teachers don't have a clue as to where they can start.

To help address this, eight dynamic presenters have teamed up with the Iowa Council of Teachers of Mathematics (ICTM) to deliver four 2-hour virtual PD sessions to equip new math teachers and any interested math teachers learn how to harness the power of GeoGebra, Graspable Math, Mathigon, and Desmos to engage students in fun and meaningful learning. No previous experience is necessary. In fact, no math teaching experience is necessary either. These workshops are absolutely free to attend and links to them will be accessible afterwards (for those who cannot make it live). Sign up to be notified. *Even if you've taught math for years and have always wanted to learn how one (or more) of these platforms can positively transform the dynamics of teaching and learning in your classroom, these free workshops are for you!*

Each virtual PD session will be simultaneously live streamed to multiple Facebook pages, YouTube channels, and Twitter. **Be sure to BOOKMARK THIS GOOGLE DOC! The live links can be found below.**

Save these dates! *We hope to see you there!*

MON Aug 15, 2022 9p - 11p Eastern (6p - 8p Pacific)
Workshop Title: *Using GeoGebra To Foster Student Exploration in Math*
Target Audience: Middle School and High School Teachers teaching Math

Presenters: Elizabeth Masslich and Steve Phelps

Workshop Description:
In this introductory workshop, we will actively engage with GeoGebra's platform and experience firsthand how GeoGebra can naturally foster student-centered discovery learning, meaningful remediation, differentiation, and ongoing formative assessment. We will also explore GeoGebra Classroom and see how this interface empowers teachers to see all students' progress and thought processes in real time. We will also explore hundreds of ready-to-use engaging activities. We will also learn how we can easily copy and edit resources created by others to effectively differentiate discovery learning experiences for various groups of students.

HERE'S THE LINK TO THE BROADCAST.

WED Aug 17, 2022 9p - 11p Eastern (6p - 8p Pacific)
Workshop Title: *Graspable Math: Supporting Students' Procedural Fluency with Algebra*
Target Audience: Middle School and High School Teachers teaching Math

Presenters: Susan Carriker and Tim Brzezinski

Workshop Description:
Graspable Math is a powerful, user-friendly platform that helps students conceptually develop procedural fluency with arithmetic & algebra. And unlike PhotoMath, Graspable Math requires students to know what to do in order to successfully simplify expressions, solve equations, find errors in student work, graph functions, etc. Its playful interface also serves as a powerful support that can help students who have been traumatized by math in the past. In this PD time, we will explore Graspable Math as a powerful tool that can foster student discovery learning while providing ongoing formative assessment and support with many algebra concepts. We will also learn how to assign Graspable Math tasks to students and learn how we can see live updates of ALL THEIR WORK in REAL TIME! ! We'll also explore their brand new collaborative whiteboard where multiple students can work at once (just like a Google doc)!

HERE'S THE LINK TO THE BROADCAST.

TUES Aug 23, 2022 9p - 11p Eastern (6p - 8p Pacific)
Workshop Title: *Using Mathigon to Engage Students in Deep Mathematical Exploration & Discovery*
Target Audience: Elementary and Middle School Teachers teaching Math

Presenters: Eda Aydemir and David Poras

Workshop Description:
Manipulatives can transform how students make meaning of important ideas by making abstract relationships visible, by teaching creativity and problem solving, and by allowing students to explore and discover. In our session, we'll explore how virtual manipulatives found in Mathigon's Polypad can mirror these effects and support more complex interactions that are not possible in the physical world.

HERE'S THE LIVE LINK TO THE BROADCAST.

THURS Aug 25, 2022 9p - 11p Eastern (6p - 8p Pacific)
Workshop Title: *Using Desmos to Engage Students in Fun and Meaningful Learning*
Target Audience: Middle School and High School Teachers teaching Math

Presenters: Kathy Henderson and Nick Corley

Workshop Description:
Desmos is a platform that provides math teachers and their students an amazing wealth of apps and engaging resources. In this session, we'll explore Desmos's curated teacher resources and how they powerfully transform the dynamics of teaching and learning within math class. We'll also explore Desmos Activity Builder and learn how to start building our own activities to engage students. In addition, we'll learn how to use Desmos's teacher dashboard to formatively assess all students' progress and provide meaningful feedback in *real time.*

HERE'S THE LIVE LINK TO THE FUTURE BROADCAST.