





# **Mathematics Teacher Professional Development Workshop**

## September 30, 2023

Offered by the Cornell University Department of Mathematics as part of MATH 4980/5080, together with the NYS Master Teacher Program & the Teacher Center of Central Westchester

## AGENDA

9:00 – 9:15 am Welcome & Overview

9:15 – 10:15 am Using Magic to Teach Mathematics Eric Bill (Union-Endicott High School)

Mathematics concepts underlie many magic tricks and can be used to hook students at various grade levels who are learning new content. In this session, participants will learn a handful of these tricks and how they can be used to teach content such as algebraic modeling, divisibility rules, converting between binary and decimal representations, modular arithmetic, geometry, and probability.

#### 10:20 am – 11:50 pm Amping Mathematics Instruction to Maximize Engaging Students' Interest and Success Utilizing Artificial Intelligence (AI) Mark Marino (Department of Mathematics, SUNY-Buffalo)

Artificial Intelligence is the cutting-edge tool for current dynamic mathematics instruction. In this session I will provide innovative techniques for incorporating AI into mathematics lessons and assessments.

11:50 – 12:20 pm Break & Discussion

### 12:20 – 12:50 pm Birds-of-a-Feather Session

Break-out rooms will be available for same grade / same class discussions.

12:50 – 1:20 pm CTLE Credits Toni Gamils (Teacher Center of Central Westchester)

Toni will answer all of your questions – from basic to advanced – regarding CTLE credits!

# 1:20 – 2:20 pmEngaging Students in the Math Classroom with the Question<br/>Formulation Technique

Toni Gamils (Teacher Center of Central Westchester)

Learn how to introduce the Question Formulation Technique into your instruction to drive deeper conceptual understanding, foster an equitable learning environment, develop students' growth mindset toward mathematics, and inspire a sense of student ownership in the classroom.

ModalityCreditCcvirtual5½ CTLE hoursfreor Master TeacherseccreditUn

**Cost** free, unless seeking Cornell University credit **Registration & More Information** 

https://e.math.cornell.edu/classes/math5080/ Mary Ann Huntley (huntley@math.cornell.edu)