



# Mathematics Teacher Professional Development Workshop

**January 28, 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

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## AGENDA

**9:00 – 9:20 am**                      **Welcome & Overview**

**9:20 – 10:20 am**                      **Implementing Creative Real-World Projects in Secondary Mathematics Classes**

Mark Marino (Department of Mathematics, SUNY-Buffalo)

I will share examples of creative, innovative, and engaging real-world projects for use in middle- and high-school mathematics classes. These projects promote students' success and interest in a variety of math topics and can easily be adapted for different student ability levels. I will discuss strategies for successfully implementing, facilitating, and assessing projects through use of rubrics.

**10:30 am – 12:00 pm**                      **Differentiating Mathematics Instruction with Mobile Technology**

Irina Lyublinskaya (Teachers College, Columbia University)

In this session we will discuss how to use various online and mobile Apps (e.g., Google Apps, Nearpod) to differentiate instructional strategies and to assess learning in inclusive middle-school mathematics classrooms.

**12:00 – 12:50 pm**                      **Break & Discussion**

**12:50 – 2:20 pm**                      **Math Fact Fluency and Beyond: Developing Reasoning Strategies Within a Culture of Care to Uplift All Students**

Melanie Myers (Williamsville Central School District)

I will discuss several research-based strategies for helping students develop mathematical fact fluency and applying their thinking to higher-level mathematics. In addition to developing mathematical reasoning strategies, we will also dive into many ways we can support students as they build their sense of agency and learn to see themselves as mathematicians.

**2:20 – 2:30 pm**                      **Wrap-Up & Closing**

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### Modality

virtual

### Credit

5½ CTLE hours  
or Master Teacher  
credit

### Cost

free, unless  
seeking Cornell  
University credit

### Registration & More Information

<https://e.math.cornell.edu/classes/math5080/>  
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