Cornell University
Department of Mathematics
MATH 5080 – Mathematics for
Secondary School Teachers

**NYS Master
Teacher Program**

Mathematics Professional Development (all sessions will be held via Zoom)
October 23, 2021   ◆   9:00 am – 2:30 pm

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

9:25 – 11:10 am   **Toward Antiracist Practice in Mathematics Education**
Nicole Fonger (Syracuse University)
Steve Harris (consultant)
Ken Keech (Syracuse City School District)

Teaching mathematics from an antiracist stance is a journey. In this session we will share how we have engaged students, teachers, and other educators in processing, retraining, and taking action to shift power toward the goal of antiracism in practice. We will cover topics of Antiracism 101, including related background theories, and share vignettes with practical applications to math lessons in algebra and statistics.

11:10 am – 12:15 pm   **Discussion & Lunch Break**

In breakout rooms, participants will discuss ideas from the morning session and share summaries of their discussions with the whole group. Then we will have a short break for lunch.

12:15 – 1:15 pm   **Building Custom Activities in Desmos – A Primer to the Computation Layer**
Ben Kirk (Ithaca High School)

You've created some exciting lessons in the Desmos Activity Builder, but you find yourself wanting to do more than what the builder lets you create. You're ready to take the plunge into learning the Desmos Computation Layer (CL), the programming tool that teachers across the country have used to create custom activities for their students. In this session, we'll explore some CL basics to understand its syntax and build some starting activities. Attendees should already be familiar with the Desmos Activity Builder, though prior programming knowledge is not required.

1:20 – 2:20 pm   **Curriculum Inspirations**
Shaun Errichiello (Ithaca High School)

From pattern hunting to visualizations, we hope our students will recognize that mathematics is a way of solving a diverse set of problems. In this session, we will discuss and solve problems from the Mathematical Association of America (MAA) that nurture the habits oof mind and problem-solving strategies inherent to all the content we teach. Participants will solve problems together in breakout rooms and share their findings to the whole group.

2:20 – 2:30 pm   **Wrap-Up**

Click here to RSVP (deadline – October 16, 2021)
Questions? Contact Mary Ann Huntley (huntley@math.cornell.edu)