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)
September 25, 2021 ◆ **9:00 am – 2:30 pm**

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

9:25 – 9:55 am   **Effects of Mathematext on Communication, Attitude, Family
Engagement, and Achievement: Basis for the Development
of a Family Math Program**
*Lucille S. Arcedas (Technological University of the Philippines
Visayas)*

In this session I will discuss how Mathamatext, which consists of the combined
strategies of contextualization, localization, family math, and multiple intelligences,
became the basis for the development of a family math program.

10:00 – 11:30 am   **Probabilistic Inference and Data Science**
Vikram Krishnamurthy (Cornell University)

Data science and machine learning are areas with significant hype. This lecture will
cover some elementary mathematical ideas in probabilistic inference with examples in
data science. Topics covered will include exploratory data analysis, linear classifiers,
and least squares inference; along with human interpretation of probability. The aim is to
show a few simple unifying principles can yield a useful understanding of many concepts
in data science.

11:30 am – 12:20 pm **Lunch & Discussion**

In breakout rooms, participants will discuss the morning's presentations and share
summaries of their discussions with the whole group.

12:20 – 2:20 pm   **Filling in the Gaps with Big Ideas**
*Kristin LaBeau (Professional Development LLC – No Limits
Learning)*

In this workshop I will discuss some big core ideas in mathematics that are critical to a
strong foundation. If you are tasked with filling in gaps in mathematical knowledge, this
workshop will help you plan your instruction, modify materials, and develop interventions
that build critical foundational understandings.

2:20 – 2:30 pm   **Wrap-Up**

Click here to Register for the Workshop (deadline – September 18, 2021)
Questions? Contact Mary Ann Huntley (huntley@math.cornell.edu)