



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)

May 14, 2022 ◆ **9:00 am – 2:30 pm**

9:00 – 9:20 am **Welcome & Overview**

9:20 – 10:50 am **Identifying Elements of Instructional Materials that Promote Student Learning**

Mary Ann Huntley, facilitator (Cornell University)

Participants will complete a survey asking them to reflect on instructional materials they currently use or have used in the past. The survey will include questions about what they like and do not like about these materials, with the goal of identifying aspects of the materials that promote student learning. Break-out rooms will be used to facilitate discussion across teachers within grade-level bands, followed by reporting out to the whole group.

11:00 am – 12:00 pm **Textbooks that Facilitate Students' Active Learning of Mathematics**

Mary Ann Huntley (Cornell University)

Topics to be discussed include: (a) Characteristics of curricula and textbooks in high-performing countries; (b) Student learning and instructional approaches for fostering student learning; and (c) Textbook designs that foster an active learning approach.

12:00 – 12:30 pm **Lunch Break**

12:30 – 1:30 pm **Student's Opportunities to Learn Algebra: Findings from a Textbook Analysis Study***

Mary Ann Huntley (Cornell University)

In this session, results will be shared from a textbook analysis project in which problems in six textbook series have been examined and classified in terms of content, cognitive behavior of students as they solve the problems, presence of real-world context, and use of tools to solve the problems (technology and manipulatives). Implications for students' opportunity to learn will be discussed.

** Collaborators include Maria Terrell (Cornell University) & Nicole Fonger (Syracuse University).*

1:30 – 2:20 pm **Discussion**

2:20 – 2:30 pm **Wrap-Up**

Registration: https://cornell.ca1.qualtrics.com/jfe/form/SV_6KH9OyOdLUeJVDo

Registration Deadline: May 12, 2022

Questions? Contact Mary Ann Huntley (huntley@math.cornell.edu)