



# Making Family Math a Part of Your Research and Practice Agenda

Thursday, June 13, 2:00 – 3:00 PM ET

# Technical Tips

1. To comment and access resources to the "Chat".
2. Add questions to the "Q&A" feature.
3. Adjust your audio to your own personal settings.

This webinar is being recorded and will be posted on <https://www.communityschools.org/link/join-a-network/research-practice-network/>

# Land Recognition



<https://usdac.us/nativeland> #HonorNativeLand Guide

# Poll Question: Which of the following role best describes your current role?

- I'm a practitioner
- I'm a researcher
- I'm an administrator or a community school coordinator
- I'm a community organizer
- I'm a community school partner
- I'm a policymaker
- I'm a graduate student
- Other

# IEL CCS RPN Research Agenda



[CCS RPN Website](#)



# IEL CCS RPN Co-Chairs



**Dr. Jessica Knapp**  
CCS RPN Practitioner Co-Chair;  
President & State Director, Communities  
in Schools of Pennsylvania



**Dr. Naorah Rimkunas**  
CCS RPN Researcher Co-Chair;  
Assistant Professor of Community  
Schools at Binghamton University



# Making Family Math a Part of Your Research and Practice Agenda

Thursday, June 13, 2:00 – 3:00 PM ET



# Every Family Counts: Considering Family Math in Research and Practice

IEL Community Schools Research Practice Network  
Quarterly Meeting

June 13, 2024





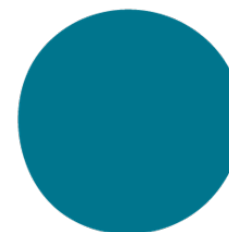
## Meet the Presenters



**Jennifer McCray**  
Director, Early Math Collaborative  
at Erikson Institute



**Holly Kreider**  
Director, NAFSCE Center  
for Family Math



## Session objectives:

- Consider family math in your own research agenda
- Support family math in your educational practices
- Understand the landscape of people and resources related to family math





Center for  
**Family Math**

# NAFSCE Mission + Vision



## OUR MISSION

Advancing high-impact policies and practices for family, school, and community engagement to promote child development and improve student achievement.



## OUR VISION

A world where family engagement is universally practiced as an essential strategy for improving children's learning and advancing equity.



## Mission

Advancing research, policies, practices, partnerships, and systems that inspire, harness, and amplify the power and love of math through family and community engagement.

## Vision

A world where Family Math advances learning and equity for each and every child.



## Center Strategic Plan Pillars



# National Center for Family Math Vision



**NAFSCE**  
NATIONAL ASSOCIATION  
FOR FAMILY, SCHOOL, AND  
COMMUNITY ENGAGEMENT

Advancing high-impact policies and practices for family, school, and community engagement to promote child development and improve student achievement

**A world where Family Math advances learning and equity for each and every child.**

**Erikson  
Institute**

Early Math  
Collaborative

Transforming the understanding, teaching, and learning of early mathematics from the ground up

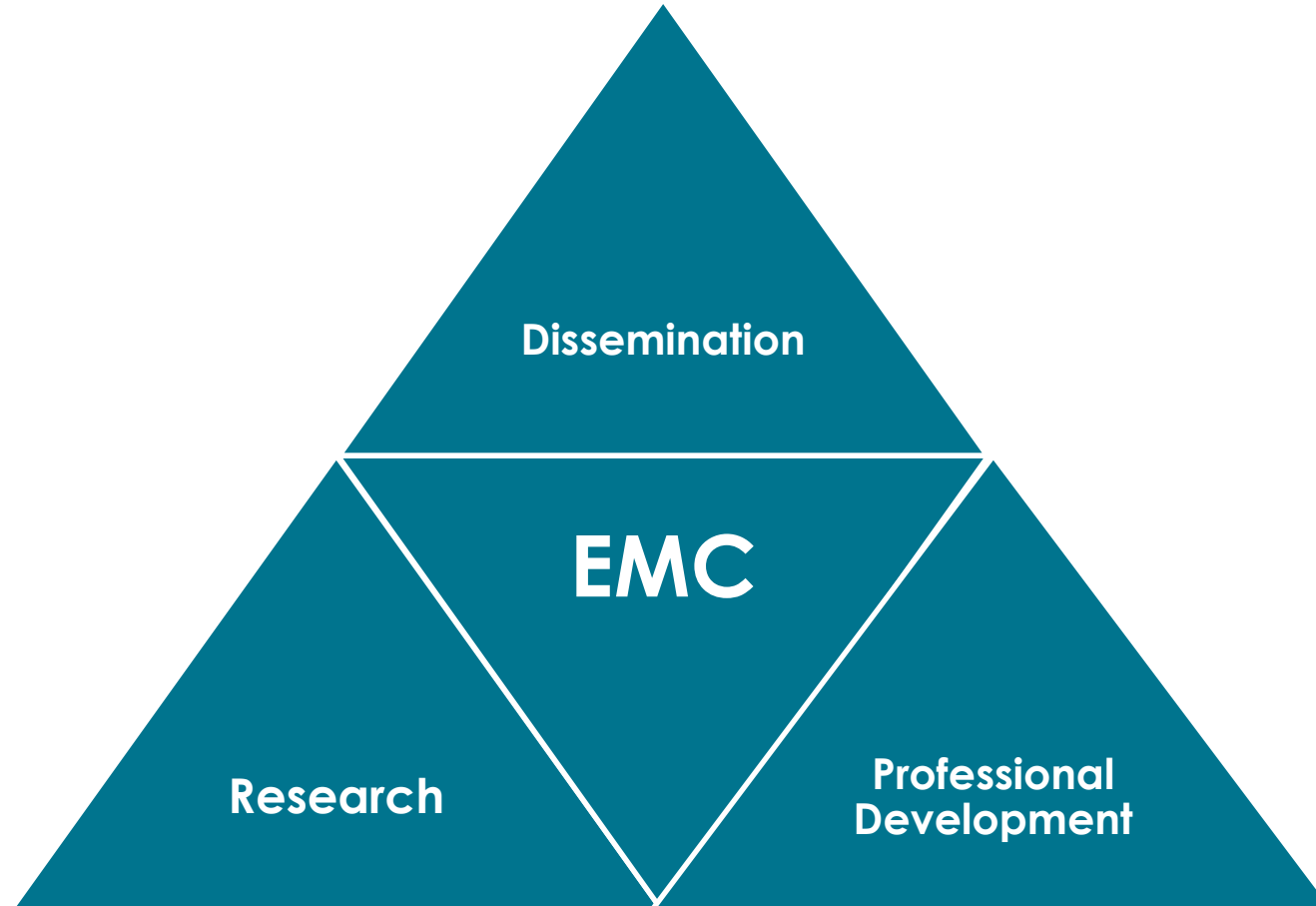


## **Erikson Institute Early Math Collaborative**



Center for  
**Family Math**

## Three Foci of the Early Math Collaborative (EMC)







## What is Family Math?

Family Math is culturally relevant math concepts and interactions occurring in the everyday activities that families engage in with their children—from the day their children are born to the day they graduate high school. Research shows that everyday math conversations add up, creating better school and life outcomes.



**What does the research say about family math?**

**What do we still need to learn and what should guide our research?**



## What Do We Know About Family Math?

- It's more than just numbers
- Starts early in life
- Happens everywhere
- Culture and context matter



## Why is Family Math Important?

- Predicts students' later academic success
- Unlocks access to advanced classes and college
- Offers 21st Century skills and STEM careers



## How Families Make A Difference

- Noticing math and talking about math in the world around us
- A rich home learning environment
- Holding high expectations
- Engaging with school around math

Eason et al (2019)





## Family Math Research Agenda: 7 priority areas of study

- 1: Families in context
- 2: Families as co-designers
- 3: Co-created measurement tools
- 4: Community-based partnerships
- 5: Home/School connection
- 6: Family math attitudes
- 7: Non-number topics

A graphic consisting of overlapping orange and yellow triangles. A dark blue rectangle is tilted across the center, containing a white circular icon of a person with arms raised. Below the icon, the text "Family Math Research Agenda" is written in white, italicized, sans-serif font.

*Family Math Research Agenda*

## Family Math Research Agenda: Guiding research principles

- Conduct research that centers families
- Engage in research processes that build equity

Resource:

Blog by Family Math dissertation fellows,  
*“Inclusive Inquiry: Centering Families in  
Family Math Research”*



**Family Math Research Agenda**

**What are some promising  
family math practices and  
programs?**





## Family math programs and approaches

- Comprehensive district-level approaches:
  - Philadelphia Public Schools
  - DC Public Schools
- Programs that partner with schools and early childhood programs:
  - FASTalk
  - MathTalk
  - ParentPowered
  - PowerMyLearning
  - Tandem
  - Waterford
  - Zeno



## Family Math Practices and Resources

- **Sharing storybooks**
  - Storytelling Math book collection
  - Researcher Herb Ginzburg, Columbia U
- **Playing games and puzzles**
  - EDC's Young Mathematicians website
- **Finding math in everyday activities**
  - MakeltMath toolkit
  - Gigliana Melzi, NYU
- **Tapping family funds of math knowledge**
  - Marta Civil, U of AZ
- **Using digital resources**
  - Apps - Bedtime Math, Measure!Everything!
- **Community Math Nights**
  - IEL toolkit



# The 8 Standards for Mathematical Practices

Mathematical Practice #1:

I CAN SOLVE  
PROBLEMS  
WITHOUT GIVING UP.

1

Mathematical Practice #2:

I CAN THINK  
ABOUT NUMBERS IN  
MANY WAYS.

2

Mathematical Practice #3:

I CAN EXPLAIN MY  
THINKING AND TRY TO  
UNDERSTAND OTHERS.

3

Mathematical Practice #4:

I CAN SHOW  
MY WORK  
IN MANY WAYS.

4

Mathematical Practice #5:

I CAN USE MATH  
TOOLS AND EXPLAIN  
WHY I USED THEM.

5

Mathematical Practice #6:

I CAN WORK  
CAREFULLY AND  
CHECK MY WORK.

6

Mathematical Practice #7:

I CAN USE WHAT I  
KNOW TO SOLVE  
NEW PROBLEMS.

7

Mathematical Practice #8:

I CAN SOLVE PROBLEMS  
BY LOOKING FOR RULES  
AND PATTERNS.

8

**Who is working on family math? What resources exist?**





## Who is working on family math? Where can I find resources?

- The Center for Family Math and its Family Math Research Consortium  
[www.familymath.org](http://www.familymath.org)
- The Erikson Institute's Early Math Collaborative  
[www.earlymath.erikson.edu](http://www.earlymath.erikson.edu)
- The DREME network at Stanford  
[www.dreme.stanford.edu](http://www.dreme.stanford.edu)





## Action Steps!

### Researchers

- Read Eason (2019) for FM overview
- Review FM Research Agenda for equity focus
- Add FM to your research inquiry
- School leaders
- Assess and support faculty FM readiness
- Set school-wide culture and mechanisms for parent voice





## Action Steps!

### Classroom educators

- Reflect on own math attitudes
- Encourage Family Math at home
- Bring family expertise into math in classroom

### CBOS

- Consider families in afterschool STEM programming
- Infuse FM in your own curriculum (FE, STEM, etc)
- Coordinate/align with schools on FM messages to families





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## Discussion

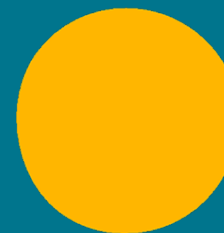
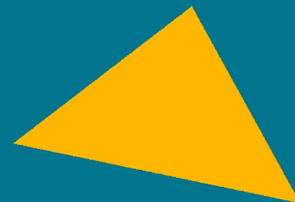




Center for  
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# Thank you!

Learn more at:  
[familymath.org](http://familymath.org)





# 2025 National Community Schools & Family Engagement Conference

**MINNEAPOLIS, MINNESOTA**

May 28 - 30



**Register for the *2025 National Community Schools & Family Engagement Conference* in Minneapolis, MN from May 28-30.**



**To view previous webinar recordings, access our research agenda, and the Community Schools Research Clearinghouse, visit <https://www.communityschools.org/link/join-a-network/research-practice-network/>**



# Thank You!

[Please fill out this month's feedback form!](#)