

Daily routines foster preschool children's math development, but does alignment to their skills also matter?

#2400454: Improving Preschoolers' Math Skills by Designing Math Interventions for Family Routines and Children's Math Skills

Talking about math, **especially during daily routines**, improves preschoolers' math development.

How many grapes are left on your plate?

One, two three...three grapes.

Most interventions do not tailor to family's daily routines and give **one-size-fits-all** recommendations.

Math Made 4 Me (MM4M)

- 6-week intervention
- 1 video and 2 text messages/week
- Tailored to family's daily routines

Math Subdomains



Family Routines



Watch one of our MM4M videos here!

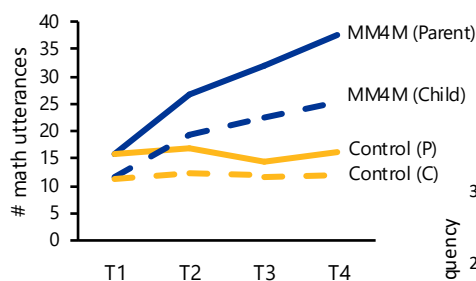


Challenge Areas to Discuss

1. Identifying valid fidelity of implementation measures.
2. Recruiting Spanish-speaking families and families outside Pittsburgh.

Pilot study results showed **increases in parent-child math talk** and **home math activities** after MM4M.

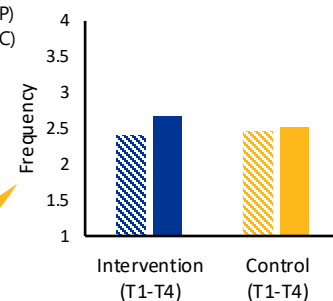
Parent-Child Math Talk



Activity Frequencies

- 1 = not at all
- 2 = once per week
- 3 = several times a week
- 4 = every day

Home Math Activities



During the pilot study, we heard from parents: **"Some of these activities are too easy for my child."**



NSF-Funded Randomized Controlled Trial 2024-2028

Goals of the RCT

1. Explore alignment to children's math skills.
2. Include an active control condition on social-emotional learning.
3. Add a delayed post-test timepoint 3 months later.
4. Diversify the sample to include Latino families.



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Read our pilot study results here!