

Community Math Nights

Debrief & Reflection



Agenda



Time	Agenda item
10 minutes	Welcome and introductions
35 minutes	Multiple points for reflection
35 minutes	Build on your success
10 minutes	Wrap-up

Today's facilitators



Laura Kassner
REL Appalachia
SRI International



Eliese Rulifson
REL Appalachia
SRI International



Amber Ravenscroft
**West Virginia Family
Engagement Center**
EdVenture Group

REL Appalachia team



Kerry Friedman



Laura Kassner



Carmen Araoz



Phil Vahey



Eliese Rulifson

Modeling continuous improvement conversations



www.pexels.com/photo/business-people-wearing-face-masks-and-talking-4427957/

Pausing to celebrate



Community Math Nights across West Virginia

Tell us in the poll what your Community Math Night looked like!

(Check all that apply)

- In-person
- Virtual, synchronous (live, real-time presentation or activities)
- Virtual, asynchronous (on-demand at your own pace)
- Drive-through/grab-and-go
- Other

Multiple Points for Reflection

Survey results, registration/attendance data, and event logistics



Survey results

- X participants responded to the survey across the math nights you and your colleagues hosted.
- Family ratings on West Virginia Community Math Night:
 - X percent rated Very Good
 - X percent rated Good
 - X percent rated Not Good at All
 - X no answer

Survey: What did you enjoy about your Community Math Night experience?

Survey: What improvements, if any, would you suggest for Community Math Nights in the future?

What are your takeaways about how families experienced Community Math Nights?

Registration and attendance data

- How many students and families attended? How does this align with your vision and goals for the event?
- Who registered, but did not attend? What barriers may have prevented them from attending?
- Who attended, but did not register? How did we ensure those families felt welcome at the event? Were we prepared with ample materials?
- What attendance patterns unfolded?
 - Grade level and classroom
 - Demographic patterns
 - Transportation availability, distance to/from school
- Who did NOT register or attend? Who did we not reach and why?

What are your takeaways about **registration and attendance** at Community Math Nights?
What are the implications for **future communications and event logistics and inclusivity**?

Logistics: How did the math night go?



Planning

What went well?

What can improve?



Presentation

What went well?

What can improve?



Station Activities

What went well?

What can improve?

What are some lessons learned that can be applied to CMN in any format? (virtual, in-person, hybrid)

Build on Your Success



Continue using growth mindset and evidence-based practices for math instruction in classrooms

- Collect data on the strengths and areas of improvement identified by teachers in your school.
- Analyze data and share in aggregate with school staff and leadership to inform professional development needs.



Teacher reflections

Instructional Practice

This is an area of strength

This is an opportunity for ongoing improvement

Explicitly teach students about growth mindset.



Model positive math attitudes and growth mindset with students.



Model positive math attitudes and growth mindset when interacting with families.



Help students connect their math work to real-world activities.



Intentionally implement the concrete-representational-abstract continuum to help students build conceptual understanding.



Provide engaging activities for students to build fluency with math procedures.



- What supports do you need to build your confidence with these practices?
- What next steps will you take to build your skills set for implementing these practices?

Continue using growth mindset and evidence-based practices for math instruction in classrooms

What other ideas do you have on ways to build the capacity of your whole school to integrate growth mindset and best practices for math instruction in classrooms?

- Share and discuss the research on Community Math Nights with your colleagues in professional learning communities (PLCs).
- Provide teachers with copies of the math activities relevant to their grade band that they can incorporate into math stations and center times.

Continuing family engagement in mathematics

- Include family discussion prompts, resources on mindset, and math strategies in teacher newsletters. (Example: <https://www.youcubed.org/week-inspirational-math/>). Remember non-English-speaking families who may need translated information.
- Make short tutorial next-step videos for parents to engage their children further in math conversations at home (Example: <https://youtu.be/Wpf1AwRRAR0>). Push the videos out through newsletters, social media, the school website.
- Ask parents to submit pictures/videos of activity in action at home for entry into a contest.
- Encourage playing a math game as an alternate homework choice.
- For families who did not attend math night: Consider posting video demonstrations of the activities on the school website or other social media platforms.
- Review the Engaging Families for Math Success blog post for additional ideas! https://ies.ed.gov/ncee/edlabs/regions/appalachia/blogs/blog14_engaging-families-for-math-success.asp

What other ideas do you have on ways to continue family engagement in mathematics?



Thinking beyond one event...

1. How might offering multiple CMNs each year, one per semester, for multiple years, integrate the experience into school culture?
2. How can you incorporate career-exploration activities to make explicit connections to real-world math throughout the year?
3. How could CMNs integrate social-emotional learning (SEL); social, emotional, and academic development (SEAD); and skill-building around the 16 habits of mind¹ for families and students?
4. How might you reconnect educators, students, and their families around fun, engaging math experiences that build enthusiasm for math, positive attitudes for learning and the growth mindset, or sustained partnerships with families?
5. How can you encourage use of the strategies introduced at CMN on a more regular basis with families? In classrooms?
6. What structures already exist into which the spirit of CMN could be infused? Might this become an element of orientation, back-to-school night, parent-teacher/student-led conferences?
7. Based on patterns in K–5 student academic data, which math skills or content strands need bolstering and how might you refocus a CMN and curate station activities to drill deeper into this area of need?

¹Kallick, B., & Costa, A. (n.d.). Habits of mind chart. The Institute for Habits of Mind. <https://www.habitsofmindinstitute.org/wp-content/uploads/2018/10/HabitsofTheMindChartv2.pdf>

Sustaining buy-in and generating future support

What are other ways to continue building buy-in and future support for Community Math Nights?

- Ask to present to the school board, board of supervisors, community groups, potential funders, and/or a professional conference to share your experience, lessons learned, and the value added through the event.
- Invite local media to attend and cover your CMN – or work with your district to submit a press release.
- Write thank-you notes to your community partners, find ways to thank them publicly, and ask for their feedback on ways to improve the partnership in the future.

Wrap-up

REL resources



- “Mathematics at Work” math night activities
<https://ies.ed.gov/ncee/edlabs/regions/appalachia/events/materials/11-15-19-community-math-night-facilitator-guide.pdf>
- Engaging Families for Math Success blog post:
https://ies.ed.gov/ncee/edlabs/regions/appalachia/blogs/blog14_engaging-families-for-math-success.asp
- Supporting your Child in Developing Math Skills for Future Success infographic:
https://ies.ed.gov/ncee/edlabs/infographics/pdf/REL_AP_Supporting_Your_Child_in_Developing_Math_Skills_for_Future_Success.pdf
- Two Strategies to Help your Child Learn to Love Math video:
<https://www.youtube.com/watch?v=Wpf1AwRRAR0&feature=youtu.be>
- Improving Students’ Attitudes and Beliefs about Mathematics literature summary:
<https://ies.ed.gov/ncee/edlabs/regions/northwest/pdf/math-attitudes-training/building-positive-math-attitudes-literature-summary.pdf>
- Teaching Math to Young Children for Families and Caregivers video and activities:
<https://ies.ed.gov/ncee/edlabs/regions/central/resources/teachingearlymath/index.asp>

Thank you!



<https://ies.ed.gov/ncee/edlabs/regions/appalachia>



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RELAppalachia@sri.com