COACHING TO SUPPORT EARLY MATH INSTRUCTION PRESENTER NOTES-OPTIONAL

Why Share Math Experiences?

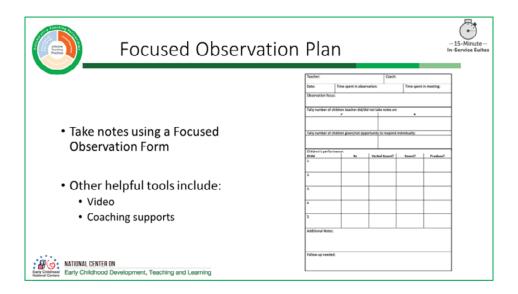


- Sharing experiences and backgrounds should include understanding how the other person approaches math and why.
- Research shows the debilitating effect of math anxiety on adults and on the children they care for
- Education Staff with more math anxiety feel less confident their math ability
 - Teachers who are less confident in their math ability plan to teach less math and are less likely to use developmentally appropriate methods



OPTIONAL SLIDE 1:

- Read and elaborate on the bullet points.
- Tell participants that next we will practice an activity that coaches and teachers can do together.



OPTIONAL SLIDE 2:

Notes for presenter:

- Read bullets.
- Tell participants the Focused Observation Form is available on the ECLKC website.
- Tell participants we'll discuss a useful Coaching Support for delivering LT-aligned instruction on the next slide.

REFERENCES

National Center for Quality Teaching and Learning. 2015. Component 2: Focused Observation. Retrieved from: https://eclkc.ohs.acf.hhs.gov/sites/default/files/pdf/pbc-brief-fo.pdf.



Scenario 1



While engaging in counting activities, some children appear not to know the number sequence. Others get mixed up in terms of what objects they've counted or skip objects. There are some children who can count accurately to 10. The teacher continues to have children count sets of 6 to 25.

How could you coach this staff member in terms of mathematics teaching/practices?



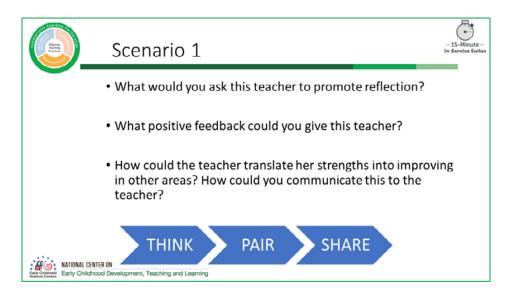
OPTIONAL SLIDE 3:

- Read the scenario and ask the question, "How could you coach this preschool teacher or family child care provider in terms of their mathematics teaching/practices?"
 - Give participants a few minutes to think about the scenario.
 - It may be necessary to re-focus participants so that their coaching suggestions focus on mathematics in particular. For example, according to the ELOF: "When counting objects, says or signs the number names in order, pairing one number word that corresponds with one object, up to at least 10." And "Counts and answers "How many?" questions for approximately 10 objects." (Goal P-Math 3 -Indicators by 60 months)
 - Tell participants we will walk through each part of the coaching cycle.
 - Ask participants to think about what sort of data the teacher or family child care provider should collect during this observation. What would the notes look like?

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Charter Saching Praction	Scenario 1	Observation focu	s: det	ermining (childre	en's leve	el on the	
		counting trajectory						
		Tally number of		n teacher did/did no	st take note	es on:		
		#			- N	11 11	*	
		Tally number of children given/not opportunity to respond individually:						
		Children's performance:						
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			15		Ž			
		2 Liam	10		X		1-6, 8, 10, 9, 10	
		2. CLUVIL			Ĵ		1-6, 8, 10, 9, 10	
			6		×		1-6, 8-10, 12, 14	
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		3. Malik	10		X		Skipped 1 object	
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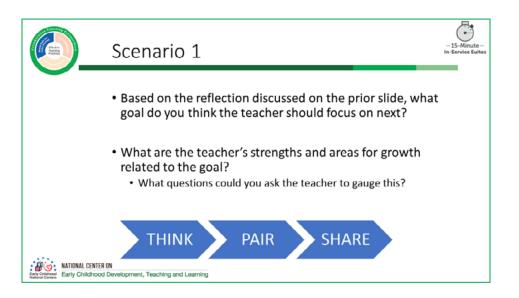
OPTIONAL SLIDE 4:

- Explain the Focused Observation Form to coaches. Note:
 - This form can be completed in any number of contexts (e.g., free play—counting blocks in a tower, snack time—counting apple slices on the plate, etc.).
 - "Verbal count?" is "rote counting" just number names, "Count?" means counting objects, and "Produce?" means making a set of objects.
 - In the notes section, the coach has recorded errors in the number sequence for Liam, and errors in touching or tagging each object for Malik.
- Have participants discuss how this Focused Observation Form is similar or not to the notes they would take for this teacher.
- Ask participants to react to these notes.
- Ask participants what other information or notes would be helpful.
- What would be participants' main notes for the teacher based on this Focused Observation Form?



OPTIONAL SLIDE 5:

- Have participants think-pair-share their responses to the questions.
- For the first bullet, participants may share questions similar to the following examples, which were presented earlier in the presentation. Remind them of these questions if necessary.
 - What went well? How did the child/ren react or respond?
 - What went well? How did the parent(s)/caregiver(s) react or respond? How did their reaction support their child's developing sense of number and quantity?
 - What would you do differently next time you use this practice?
 - What do you hope the child/children/parent(s)/caregiver(s) will gain by using this practice? How will you know?
- For the second bullet, participants may share points similar to the following.
 - The teacher did well incorporating opportunities for counting and for children to view and describe their world mathematically.
 - The teacher did well providing most children the opportunity to try counting sets that were large enough to be challenging.
- For the final bullets, participants may share points similar to the following.
 - The coach may comment on her strength in providing children with opportunities to count and help her build on that by being purposeful about what set sizes to try next.
 - The coach may comment on her strength providing challenge to children and discuss extending that to Isabella or incorporating smaller sets for Malik and Liam.



OPTIONAL SLIDE 6:

- Have participants think-pair-share their responses to the questions.
- Based on discussion on the previous slide, participants may suggest the teacher's goal for the next session be related to providing children the opportunity to count sets big enough to accurately determine the set size a child can count and push them to count a slightly larger set.
- For the final bullet, teachers should hit on the following points mentioned in the notes for the previous slide.
 - Strengths: recording notes on the size of sets children counted and how they responded, presenting opportunities for counting and seeing and describing the world mathematically; providing sets large enough to be challenging
 - Area for growth: adjusting the size of the set to match children's current performance (e.g., larger sets for Isabella and smaller sets for Liam and Malik)
- For the final sub-bullet, participants may suggest asking the teacher questions similar to:
 - How well were you able to determine children's level on the counting trajectory or in the ELOF?
 - What did you do that was helpful for determining children's level?
 - What do you wish you had done differently?
 - What do you want to work on next to build on what you accomplished?

Action plan goal:								
I will provide small group instruction to children to support their learning of counting, cardinality, and quantity comparison, and I will collect data during these activities.								
Steps to achieve this goal:	Resources needed:	By when:	Completed					
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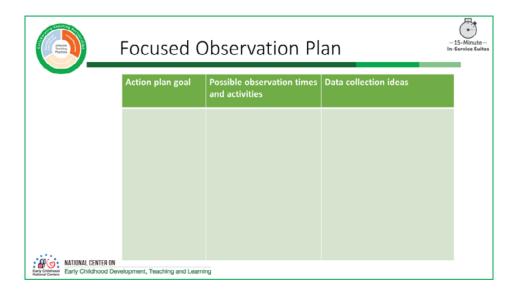
OPTIONAL SLIDE 7:

Notes for presenter:

• As a group, complete an Action Plan for this teacher.

REFERENCES

National Center for Quality Teaching and Learning. 2015. Component 1: Shared Goals and Action Planning. https://eclkc.ohs.acf.hhs.gov/sites/default/files/pdf/pbc-brief-sgap.pdf.



OPTIONAL SLIDE 8:

Notes for presenter:

• As a group, complete a Focused Observation Plan for this teacher's next observation.

REFERENCES

National Center for Quality Teaching and Learning (2015, Summer). Component 2: Focused Observation. Retrieved from: https://eclkc.obs.acf.hbs.gov/sites/default/files/pdf/pbc-brief-fo.pdf.

Scenario 2



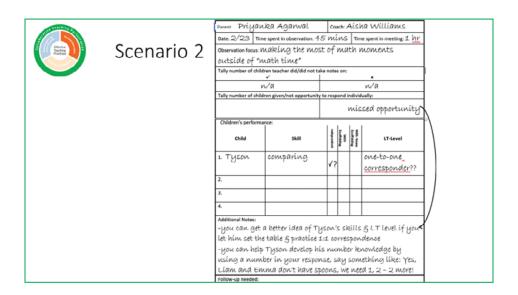
During snack time at a socialization, the parents work to set the table – giving each child one bowl, one spoon, one cup, and one napkin. Two-and-a-half year old Tyson notices that there aren't enough spoons for every child and says, "more spoons!" The home visitor overhears the mother say, "Yes, we need more spoons." The home visitor whispers to the mother, "Maybe you can tell him we need 2 more spoons. Add in some math language!"

How could you coach this home visitors in terms of supporting the parent's use of mathematics teaching/practices?



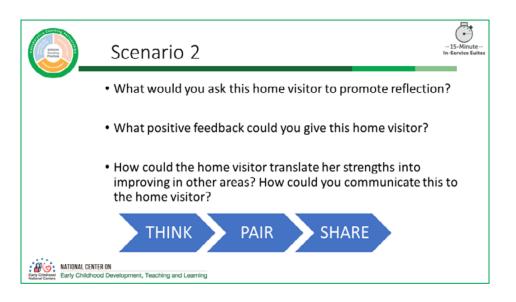
OPTIONAL SLIDE 9:

- Read the scenario and ask the question, "How could you coach this home visitor as she supports the parent's use of mathematics teaching/practices?"
 - Give participants a few minutes to discuss the scenario and share their ideas with each other, then have them share out.
 - It may be necessary to re-focus participants so that their coaching suggestions focus on mathematics in particular.
 - For example, child "identifies 'more' or 'less' with a small number of objects without needing to count" and "uses language to refer to quantity." (Goal IT-C 8)
- Summarize what participants say, connecting their ideas back to the coaching cycle and mathematics specific content.



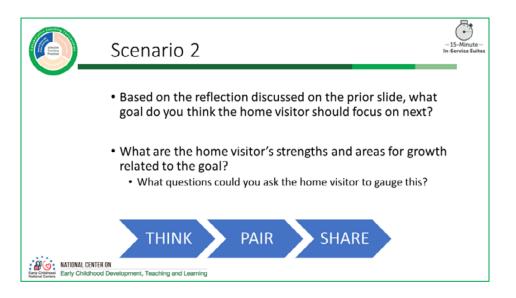
OPTIONAL SLIDE 10:

- Have participants discuss how this Focused Observation Form is similar or not to the notes they would take for this teacher.
- Ask participants to react to these notes.
- Ask participants what other information or notes would be helpful.
- What would participants main notes for the teacher look like, based on this Focused Observation Form?



OPTIONAL SLIDE 11:

- Have participants think-pair-share their responses to the questions.
- For the first bullet, participants should share questions similar to the following examples, which you presented earlier in the presentation. Remind them of these questions if necessary.
 - What went well? How did the child/ren react or respond?
 - What went well? How did the parent(s)/caregiver(s) react or respond? How did their reaction support their child's developing sense of number and quantity?
 - What would you do differently next time you use this practice?
 - What do you hope the child/children/parent(s)/caregiver(s) will gain by using this practice? How will you know?
- For the second bullet, participants may share points similar to the following.
 - The home visitor did well helping the parent notice and reinforce Tyson's understanding and use of the math concepts.
- The home visitor could have helped the parent to reinforce Tyson as he viewed and described his world mathematically. For the final bullet, participants may comment on how well she helped the parent reinforce "more," and how she could support the parent in building on that comment by elaborating her response and incorporating number words in her response.
 - Participants may also note how the home visitor could have helped the parent see that Tyson was viewing his world mathematically, and that the parent could take that knowledge and provide him an opportunity to set the table to practice 1-to-1 correspondence.



OPTIONAL SLIDE 12:

- Have participants think-pair-share their responses to the questions.
- Based on the discussion on the previous slide, participants may suggest goals similar to the following:
 - Providing linguistically-appropriate labels of small quantities to help children build their understanding of number (e.g., I'm getting 1 marker; I have 2 books on the table).
 - Integrate opportunities for children to do math throughout the day (e.g., Let children practice 1-to-1 correspondence by setting the table).
- For the final sub-bullet, participants may suggest asking the home visitor questions similar to:
 - How well do you think you took advantage of this math moment during mealtime?
 - What did you do that helped the parent support Tyson's early math thinking?
 - What do you wish you had done differently? What could you have added?
 - What do you want to work on next to build on what you accomplished?

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Action plan goal: I will provide small group instruction to children to support their learning of counting, cardinality, and quantity comparison, and I will collect data during these activities.							
Resources needed:	By when:	Completed					
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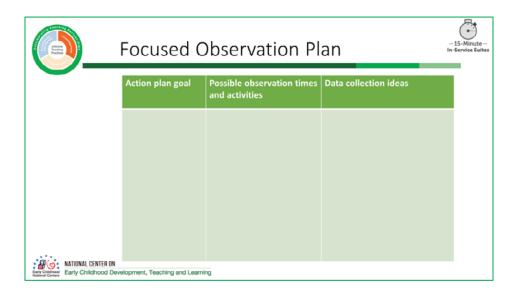
OPTIONAL SLIDE 13:

Notes for presenter:

• As a group, complete an Action Plan for this teacher.

REFERENCES

National Center for Quality Teaching and Learning. 2015. Component 1: Shared Goals and Action Planning. https://eclkc.ohs.acf.hhs.gov/sites/default/files/pdf/pbc-brief-sgap.pdf.



OPTIONAL SLIDE 14:

Notes for presenter:

• As a group, complete a Focused Observation Plan for this teacher's next observation.

REFERENCES

National Center for Quality Teaching and Learning. 2015. *Component 2: Focused Observation*. https://eclkc.ohs.acf.hhs.gov/sites/default/files/pdf/pbc-brief-fo.pdf.