





Highly individualized teaching and learning

Implementing research-based curriculum and teaching practices

Parent/family engagement



Screening and ongoing child assessment

Nurturing, responsive, and effective interactions and engaging environments

Framework for Effective Practice





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Objectives

- Understand why Practice-Based Coaching (PBC) is a powerful approach to professional development
- Understand how PBC components can be used to coach education staff on early math teaching practices
- Understand and practice methods for engaging in effective PBC cycles around early math teaching practices



Why Use Coaching?

- Coaching is an evidence-based professional development strategy that has been shown to:
 - Effectively support education staff in improving their practices
 - Result in increased learning in young children



What is Practice-Based Coaching?

An approach that uses a cyclical process to support effective teaching practices that lead to positive outcomes for children





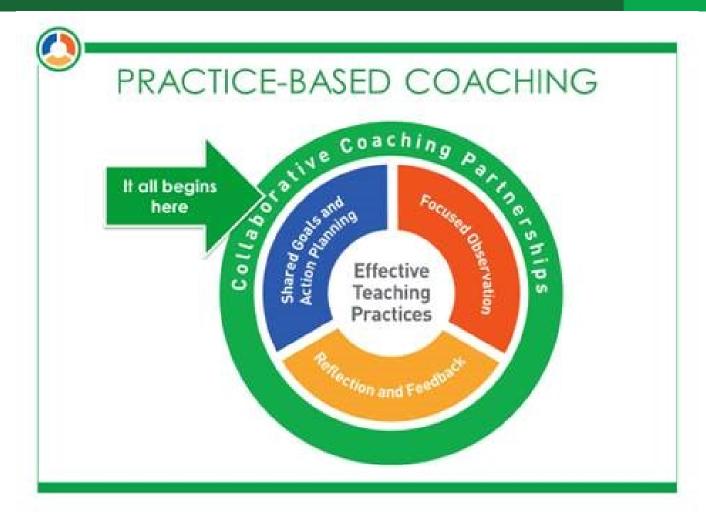
Practice-Based Coaching Components

- Collaborative coaching partnership
- Shared goals and action planning
- Focused observation
- Reflection and feedback





Collaborative Coaching Partnerships





Establishing a Collaborative Partnership

- A collaborative partnership involves a teacher, family child care provider or home visitor (a coachee) and a coach planning and working together.
- It is developed over time by developing reciprocal and respectful relationships, shared vision, and trust.
- Establishing a collaborative partnership includes:
 - sharing professional experiences and backgrounds,
 - developing shared expectations, and
 - reaching a mutual understanding of the coaching process and purpose.



Sharing Math Experiences



As a coach, how would you use this activity with coachees?

- What is the earliest math experience that you can remember?
 - What did you feel during this experience?
- How has that influenced how you feel about math now?
- How do you think your feelings and previous experiences might be expressed in the classroom?



Shared Goals and Action Planning









1

Specify a teaching practice or a set of teaching practices.

2

Gather information about implementation of teaching practices through a needs assessment.

3

Use the information gathered about implementation, and identify priorities for coaching.

4

Set specific, observable, achievable goals based on priorities. 5

Develop an action plan for use as the coaching roadmap.





Teaching Practices

1

Specify a teaching practice or a set of teaching practices.

- I understand how children's counting and cardinality skills progress.
- I include materials in every learning center that encourage children to count and write numbers.
- I offer a wide range of materials that children can use to compare quantities.
- I use teachable moments as opportunities to build counting skills and understanding of cardinality.
- I lead small group activities and discussions focused on counting and cardinality.
- I ask questions that invite children to make predictions.

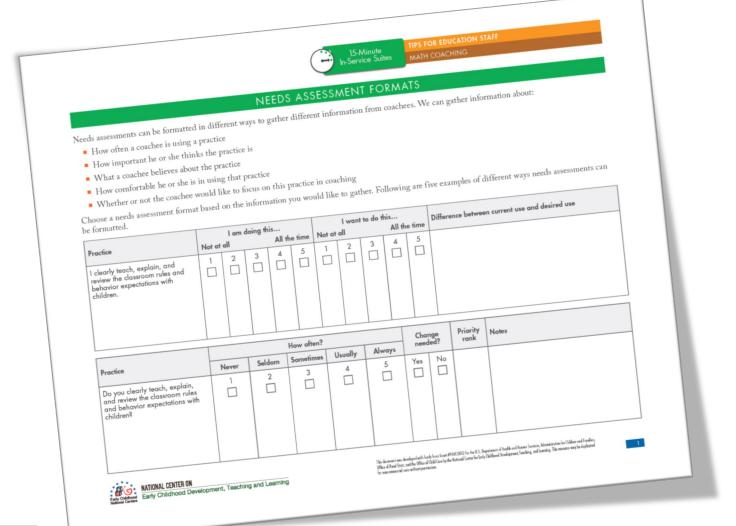


Needs Assessment



2

Gather information about implementation of teaching practices through a needs assessment.



Practice	How well/how often						je d?	Priority rank	Notes
I understand how children's counting and cardinality skills progress.	Not at all	Slightly	Moderately	Very	Extremely	Yes	No		
I include materials in every learning center that encourage children to count and to write numbers.	Never	Seldom	Sometimes	Often	Always	Yes	No		
I offer a wide range of materials that children can use to compare quantities.	Never	Seldom	Sometimes	Often	Always	Yes	No		
I use teachable moments as opportunities to build counting skills and understanding of cardinality.	Never	Seldom	Sometimes	Often	Always	Yes	No		
I lead small group activities and discussions focused on counting and cardinality.	Never	Seldom	Sometimes	Often	Always	Yes	No		
I ask questions that invite children to make predictions.	Never	Seldom	Sometimes	Often	Always	Yes	No		
7. I ask open-ended questions to better understand a child's mathematical thinking.	Never	Seldom	Sometimes	Often	Always	Yes	No		
I collect data on children's demonstrations of math knowledge in the context of the math activities and discussions I provide.	Never	Seldom	Sometimes	Often	Always	Yes	No		
I provide instruction and feedback to children based on their individual needs.	Never	Seldom	Sometimes	Often	Always	Yes	No		

SAMPLE NORTHLAKE HEAD START TEACHER

Practice	How well/ho	How well/how often						Priority rank	Notes
I understand how children's counting ar cardinality skills progress.	d Not at all	Slightly	Moderately	Very	Extremely	Yes	No	1	
I include materials in every learning center that encourage children to count and to write numbers.	Never	Seldom	Sometimes	Often	Always	Yes	N₀		
I offer a wide range of materials that children can use to compare quantities.	Never	Seldom	Sometimes	Often	Always	Yes	No.		
I use teachable moments as opportunities to build counting skills an understanding of cardinality.	Never	Seldom	Sometimes	Often	Always	Yes	N₀ ✓		
I lead small group activities and discussions focused on counting and cardinality.	Never	Seldom	Sometimes	Often	Always	Yes	No	3	
I ask questions that invite children to make predictions.	Never	Seldom	Sometimes	Often	Always	Yes	No	4	
7. I ask open-ended questions to better understand a child's mathematical thinking.	Never	Seldom	Sometimes	Often	Always	Yes	No	5	
I collect data on children's demonstrations of math knowledge in the context of the math activities and discussions I provide.	Never	Seldom	Sometimes	Often	Always	Yes	No	2	
I provide instruction and feedback to children based on their individual need	Never	Seldom	Sometimes	Often	Always	Yes	No	6	





Identify Priorities and Set Goals

3

Use the information gathered about implementation, and identify priorities for coaching.

4

Set specific, observable, achievable goals based on priorities.



Develop Action Plan



5

Develop an action plan for use as the coaching roadmap.



Action Plan

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		(-)	In-Service Suites	Airr			
			FORM				
	SAMPLE	ACTIO	n Plan Form				
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				Date: Odi.			
Coach: Miranda						hase activities.	
Coachee(s): Stephen			1 augntity	comparison. I will co	llect data during	III630	
TION BLAN GOAL:	and their learning o	f counting,	cardinality, and quality			Co	mpleted:
ACTION TO A Small group instruction to	Coaches (\$\frac{1}{2}\$: Stephen ACTION PLAN GOAL: 1 will provide small group instruction to children to support their learning of counting, \$\frac{1}{2}\$ (Res				By when:		
			ources needed:		Oct. 4		
to achieve this goal:	La countina, cardinality,	and lea	rningtrajectories.org		1 7		
Steps to deriver the learning trajector	ries related to courting		tories om		Oct. 7		
quantity comparison.	Steps to achieve this goal: 1. I will review the learning trajectories related to counting, cardinality, and quantity comparison. 2. I will plan one week of small group activities to teach counting, cardinality, Weekly schedule and quantity comparison (one activity per day).				7.711		
a Lucil plan one week of small gra	oup activities to reactivity per day).	V	100/		Oct 7-11		
I will plan one week of small ground quantity comparison (one and quantity comparison)	conters time, pulling s	small			0 . 711		
ill implement small group ac	tivities during certions times,		II sien sheets		Oct. 7-11		
I will implement small group acting groups of children together for groups.	v 'See on children's math	learning.	Data collection sheets		Oct. 14		
A Lyvill collect data during small	group activities on comments		learningtrajectories.org		Oct. 14		
4. 1 4	1 will review data and plan another week of small group activities to 1. 1 will review data and plan another week of small group activities to 1. 1 will review data and plan another week of small group activities to 1. 1 will review data and plan another week of small group activities to 1.				- 12		
5 I will review data and plan a	nother week of small groups		Weekly schedule		Oct. 14	•	
I will review data and plan a counting, cardinality, and qu	aredictions and eli	icit					
4 I will brainstorm 3-5 question	ns to encourage predictions and eli						
6. I will brainstone children's thinking.						Date:	
		Date:		Date:	wed.	☐ Goal is achie	
REVIEW	Date:	ПС	al is achieved.	mo -lie in DI	ogress.	☐ Changes are	needed.
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Goal is achieved. Goal is in progress.	Goal is in progress. Changes are needed.		anges are needed.	- coret 4-1	S. Department of Health and Human S	enices, Administration for Children and F e. and Lacming, This resource step be du	gazini, plasted
Goal is in progress. Changes are needed.	elopment, Teaching and Learning		This document was developed Office of fixed Start, and the fax noncommunity store with	I with hands from Gener #20000012 for the I Office of Odd Care by the National Caster for out particulars.	Enly Children's Development, Technic		





Focused Observation









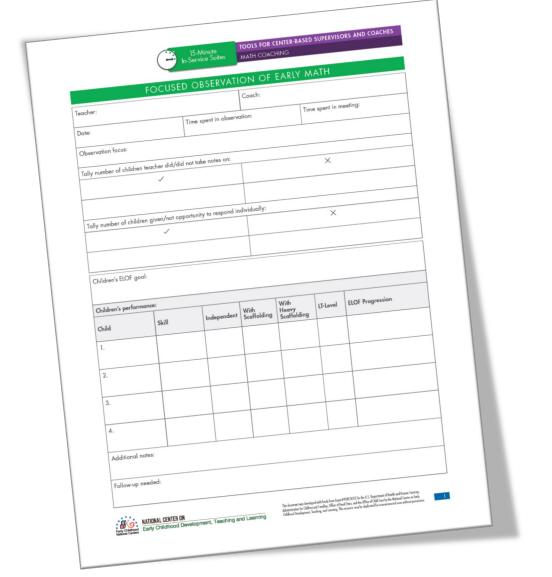
- Observations centered on action plan
- Coach collects notes/data
- Coach uses other coaching strategies as needed (and agreed to by coachee)







- Make a plan!
- Collect data
 - Notes
 - Checklists
 - Behavior counts





Focused Observation





Reflection and Feedback









- Reflection
- Supportive feedback
- Constructive feedback







- Reflection questions:
 - "How did math small groups go today?"
 - "What happened when Birdie made an error when counting?"
 - "What could you share with her mom to help's Birdie count with greater accuracy?"
 - "What do you think you could do to support Tyrone in learning from his peers?"







- Supportive feedback should be:
 - Related to the action plan
 - Specific
 - Data-based
 - Non-attributive

• Examples:

- "I noticed that when Robbie counted incorrectly, you reminded him to touch each object only one time as he counted. You suggested he move the objects so he could keep track of the ones he already touched. After you gave him that suggestion, he was able to count correctly without help! When you gave him a high five, he had a big smile on his face!"
- "Wow—you did a really nice job collecting data on each child's counting skills during small groups today. That will really help you plan your next small group activity and the type of instruction you will provide!"







- Constructive feedback should be:
 - Related to action plan
 - Specific
 - Data-based
 - Non-attributive

• Examples:

- "I observed you giving at least three opportunities to respond to almost every child in your small groups today. Tabitha and William both engaged in some disruptive behavior during the small groups, and I noticed that they each got only one opportunity to respond. Next time, make sure all children get several opportunities to respond. That can help keep them more engaged and prevent challenging behavior."
- "I noticed that when you played the counting game in one of your small groups, Arnie counted eight objects correctly. However, when you then asked him how many buttons there were (to assess his cardinality understanding), he said, "Five," and you didn't respond. It would be helpful to provide Arnie with specific feedback when he makes a mistake. You could say, "The last number you said was 'eight'. That means there are eight buttons.").



Reflection and Feedback Practice Scenario



- Consider this scenario:
 - Mary, a toddler classroom teacher, has an action plan related to providing more teaching related to one-to-one correspondence. During snack time in this classroom, the teachers work to set the table—giving each child one bowl, one spoon, one cup, and one napkin. Tyson notices that there aren't enough spoons for every child and says, "More spoons!" The teacher smiles and says, "Yes, we need more spoons."
- What questions could you ask Mary to promote reflection?
- What supportive feedback could you give Mary?
- What constructive feedback could you give Mary?



The Cycle Continues!



Review







