Session 2 Kentucky PATTERNS Logistics/ Pre Planning Need

Item		Materials Needed	
Pre	senters Outline	Markers, chart pa Large post its for Some smaller	1
Pov	werpoints	KCM facilitators	Learning Lab 2 PPT
Handouts packet including		Let's Do Math: Materials Pattern blocks or assorted pattern & attribute blocks, Pattern block template; Books: Pete the Cat and Jan Brett, The Mitten plus Napping House	
Vid	leo:	Focus on the Chil Napping House R	

For Associate Facilitators

Introductory narrated PPT

Readings

- ☐ MC Big Ideas Book: Patterns
- \square napter from *Don't Leave the Story in the Book*, Hynes-Berry 2011.
- □ apter on Patterns From Teaching Numeracy, Language and Literacy with Blocks, A.Newburger & E. Vaughan, 2006

PRESENTERS OUTLINE

Time	REFLECTIONS ON OUR PRACTICE	Rationale
30 min		•)oing the debriefing on the research lesson with post-its should
8:30-9		make it easier for participants to be frank—since the comments are anonymous.
PPT 1,2		 Breaking into small groups to look at a cluster of responses around one topic will assure that everyone will get a more in- depth chance to reflect and to see that their experience was shared by others.
		 Having participants indicate didn't do or not applicable in an anonymous fasion will reinforce that we are collecting data to analyze, not judging anyone
	Post it reflections on People Sort research	
5 mn for posting	lesson	As group enters, they use post-its provided to answer the 4 questions, put on
10 mn small	4 chart papers with Headers posted around room.	the appropriate chart paper board.
group disc		Encourage everyone to comment on all 4 points if the point doesn't apply,
15 mn sharing	Split into groups who read a set of post-its on the same topic and then summarize the remarks.	have them put up a smaller blank post-it –no names

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	 I/hat satisfied or delighted you when you did the Research Lesson, including how children responded, evidence of learning in their skill in observing, naming, and classifying? 	Facilitators circulate and listen in so as to be prepared to facilitate sharing
	ny "tailoring" or adapting the lesson I did to make the lesson more appropriate for my class?	
	hings I found challenging about doing the People Sort, something I might do differently another time	
	• Comment on how you have become aware of opportunities to mathematize sorting activities in the daily life of the classroom o on how you see children observing, naming and classifying?	
9:00-10:15	LET"S DO MATH—	Rationale
75 minutes	Let's Talk About It	Having participants work in small groups gives everyone a chance to engage in problem-solving and constructing understanding about patterns Large group share out and then debriefing reinforces the learning
		community; 5 activities are designed to bring out different features of patterns
5	Warm up: Big Idea: Repeating patterns are based	People Pattern warm up with whole group (discuss # of Iterations
PPT 3,4	on a SET of Attributes: 3 needed; allow predicatability	needed) 1st time we do ask; what's my rule? Then get group to review
5, 6	productionity	2 nd We do and ask: Who will be next (extend) and then snap and clap it (translate) 3 rd Ask for volunteer: who can make another people pattern group
		confirms by extending and then someone does movement or sounds to extend.
PPT 7, 8		Big Idea/Skill Points Patterns need 3 repetitions, use attributes—simplest use one: allow predictability—can be generalized

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10 minutes to prepare:	Small Group Work: 5 groups each does a different kind of activity to present to the whole group 5 to present, 10 to	5 roups 1) Do 3 variations of a pattern using pattern blocks (or assortment of pattern blocks and attribute blocks—one simple pattern but not using color;
15 mn Share plus debrief	About 8 minutes for us to pull out Key points about pattern –bring up slide after presentation	one using blocks but deliberately tricky (use multiple attributes) One using pattern block template Big Idea/Skill Points, use attributes—simplest use one; more complex use several; down play color,
Gr 1		
PPT9		2)) Be Pattern Detectives for Jan Brett's The Mitten Big Idea/ Skill feature—mathematizing patterns in texts and illustrations in children's lit
Gr 2) PPT 10 Gr. 3		3) Write a new <i>Pete the Cat</i> story set in a preK classroom. Explain how the story is patterned. Big Idea/Skill Points Patterns are part of children's lives, found in the
PPT 11,12 Gr 4,		routines verbal—feature of many early childhood books (cf Brown Bear, Brown Bear)
PPT 13 Gr 5		4) Perform a a classic children's action song (<i>Old McDonald</i> , <i>Hokey-Pokey</i>) o& do a variationthen explain how music and motion are
PPT 14		patterns Big Idea/Skill Points music & movement pattern—supports memory ,multiple modes of representation deepen understanding
		5 Act out Napping House Big Idea/Skill Points growing pattern
10:30-11:00	WHAT DOES UNDERSTANDING LOOK	RATIONALE
	LIKE Developmental Trajectory	The presentations of the 5 pattern activities should have jump-started the participants in constructing their understanding of the Big Ideas and Skills involved in Patterns
		In discussing the developmental trajectory, participants need to see that the movement from recognizing to extending to generating a pattern is a cycle that repeats as patterns get more complex
		Videos show children in the process of constructing or beginning to construct understanding of pattern; 1 st child in each set is at "not yet" stage and 2 nd one has it
Begin with 5	• levelopmental trajectory;	Turn and talk –recognizing how much pattern is all around us

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10:30-11:00	WHAT DOES UNDERSTANDING LOOK LIKE Developmental Trajectory	The presentations of the 5 pattern activities should have jump-started the participants in constructing their understanding of the Big Ideas and Skills involved in Patterns In discussing the developmental trajectory, participants need to see that the movement from recognizing to extending to generating a pattern is a cycle that repeats as patterns get more complex Videos show children in the process of constructing or beginning to construct understanding of pattern; 1st child in each set is at "not yet" stage and 2nd one has it.
Begin with 5 minute Turn and Talk— 10 min discussion PPT 15 some report out then use PPT 16, 17,18 VIDEO 20 PPT 19 worksheet	vevelopmental trajectory; attern units and Structure ring in building blocks Picture from Newburger	Turn and talk –recognizing how much pattern is all around us Let's Talk discussion, record on chart paper key terms about Ideas and Skills Then PPT Big Ideas then Dev trajectory Focus on the child: Repeating Pattern 1:50 & 4 As you watch do you see how the developmental trajectory unfolds? "Zaria, preschool doesn't get it (can't copy) "eremiah sees and can copy & extends with help rendan K-ELL has trouble naming & extending much more complex pattern but eventually gets it Video of Research Lesson Napping House
11:10- 11:30 6 in video 10 plan Video 11:30	TRY AND APPLY Research Lesson Use "Instructional Decision Reflection	Napping House Research Lesson Planning form

PPT 19 worksheet		Video of Research Lesson Napping House ●
11:10- 11:30 6 iin video 10 plan Video 11:30	TRY AND APPLY Research Lesson Use "Instructional Decision	Napping House Research Lesson Planning form
	Reflection	