Continuum of Interactional Struggles and Developing Competencies in K-5 Collaborative Mathematics Problem Solving Langer-Osuna, J., Trinkle, M., Kwon, F. NCTM 2019

	Core Interactional Struggles	Developing Competencies	Teaching Strategies
K 1	 Turn-taking Resource sharing Attending/Orienting Toward One Another's Thinking 	 Language for sharing resources (e.g., "what if we") Turn-taking strategies (e.g., ro-shambo for who starts first) Listening to repeat/revoice Listening to understand (e.g., "is that right?" 	 Participation structures Re-voicing routines Modeling and practicing language to resolve conflicts Reflective discussions about productive partnerships (what they look and sound like; what's difficult today; what worked)
3	 Attending/Orienting Toward One Another's Thinking Negotiating Emerging Intellectual and Social Hierarchies 	 Listening to understand and evaluate (e.g., expressing and explaining agreement) Strategies for sharing authority (e.g., 	
5	 Negotiating Thickening Intellectual and Social Hierarchies 	 Listening to understand and extend Strategies for sharing authority (e.g., "who has an idea?" "lets try it") 	