Mathematics Coaching: Moving from Master Teacher to Mathematics Leader

Arlene P. Mitchell RMC Research Corporation Denver, CO

Professional Development for Coaches

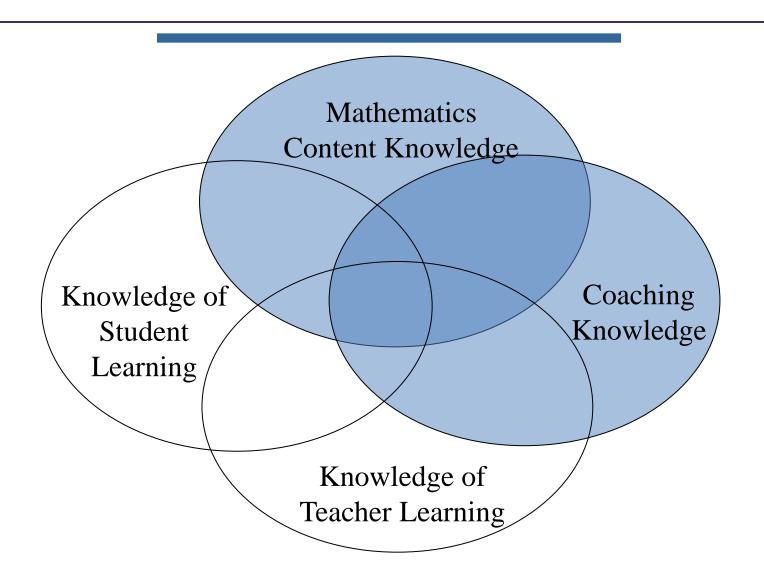
A mathematics coach is an on-site professional developer who enhances teacher quality through collaboration, focusing on

research-based, reform-based, and standards-based

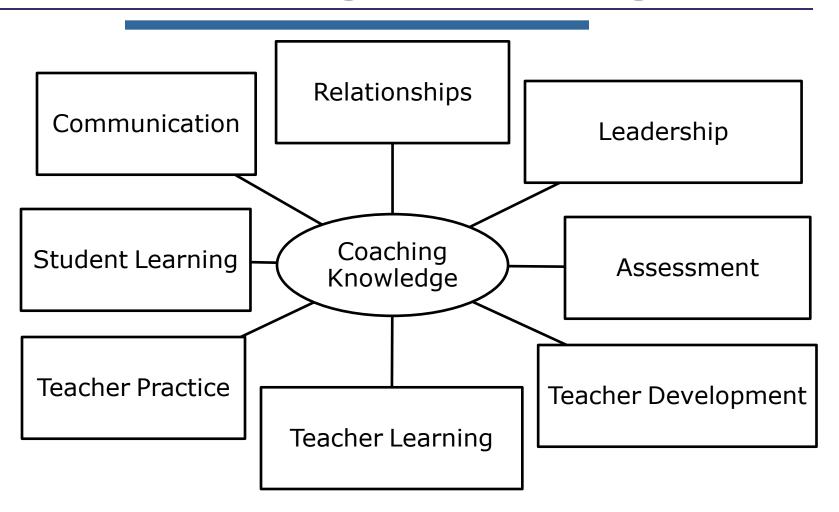
instructional strategies and mathematics content that include the

why, what, and how of teaching mathematics.

Knowledge Domains



Coaching Knowledge



Professional Development for Coaches and Administrators

- Eight sessions (October February)
 - ½ day for coaches and their administrators
 - 1 ½ days for coaches only
- Refresher session (September)
 - ½ day for coaches and their administrator
 - 1 ½ days for coaches only



PD Sessions for Administrators & Coaches (1/2 day)

- Discuss progress of coaching within building
- Establish a culture of coaching in building
- Provide information on effective mathematics classrooms:
 - Standards for Mathematical Practices
 - Principles to Action
- Relate coaching cycle to administration support



Culture of Coaching

	School Leaders	Mathematics Coach	Teacher
-	Articulate a clear vision for teaching and learning	 Ask reflective questions of teachers Provide feedback to 	 Communicate specific instructional needs to coach
•	Implement coaching as a professional development model	 teachers Share instructional materials and resources 	 Ask for specific types of support from the coach
•	Set aside time for coaching within the daily schedule	Maintain confidentiality with teachers about	Listen to hear ideas being presented
•	Share goals and beliefs of coaching to entire school	 Use a structured approach for coaching: Gather information 	 Take shared responsibility for cultivating a positive and productive coaching relationship
•	Articulate clear expectations for coaching	 before the lesson Observe complete lesson Collect & document 	Set aside appropriate amount of time for
•	Budget appropriate resources (time and personnel) to support coaching	evidence from lessonDebrief & reflectwith teacher after	 Be open to try new instructional practices
•	Make mathematics coaching a priority	lessonBe flexible & dependable	 Make mathematics coaching a priority
		Make mathematics coaching a priority	

Consumer of Coaching Framework

How to be a Wise Consumer of Coaching (Journal of Staff Development, February 2011)



- Feedback
- Reflection
- Classroom expectations
- Content
- Structure
- Communicating needs

PD for Mathematics Coaches (1 ½ days)

- Developing rapport and trust with teachers
 - Adult learners
 - Change process
- Observing / practicing coaching techniques
 - Videos
 - Scenarios
- Tools to determine teacher needs
 - Teacher Needs Inventory
 - Reflections (Coach and Teacher)
- Sharing and discussions among coaches



Ten Roles for Coaches

(Killion, 2009)

- Data coach
- Resource provider
- Mentor
- Curriculum specialist
- Instructional specialist

- Classroom supporter
- Learning facilitator
- School leader
- Catalyst for change
- Learner

