A Model of Effective Coaching Support for Early Reading RTI

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Project Rationale

- Majority of students with reading difficulties in 3rd grade continue to be poor readers in 9th grade (e.g., Francis et al., 1996)
- Identifying all students' needs and intervening early is critical to ensuring students' success in school (Torgesen, 2009; Wanzek & Vaughn, 2007) and to promoting social justice
- Many schools have begun to adopt a Response-to-Intervention (RTI)
 approach for the early prevention of reading difficulties
- Within a RTI framework, teachers:
 - Use data to identify students at risk of reading difficulties
 - Plan, implement, and evaluate instruction and interventions to promote student reading



Project Rationale

 Although developing research base on RTI, additional research is needed to assess the utility of efficient and effective approaches for supporting teachers in the RTI process





Project READERS

Response to Effective Assessment Driven Early
 Reading Supports

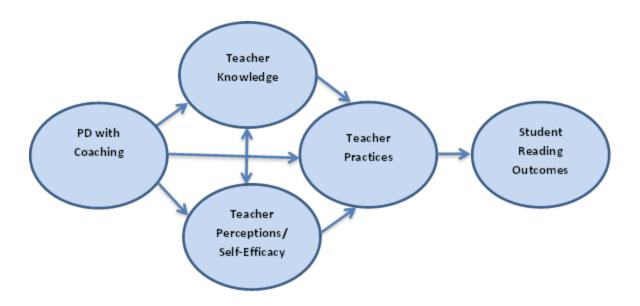


Purpose of Project

 To evaluate the impact of teacher professional development with web-based coaching in the use of student data and the implementation of interventions to prevent and remediate reading difficulties



Proposed Theory of Change





Initial Research Question

 What is the impact of professional development with web-based coaching on teacher/ interventionist knowledge, perceptions, and practice?



Research Design

- Randomized experimental design, with schools assigned to:
 - PD with coaching
 - Business as usual (control)



Participating Schools

- Inclusionary criteria:
 - Elementary school serving K-3 students
 - Classified as rural
 - Occupant Commitment to:
 - Use DIBELS Next
 - Have teachers engage in data-based decision making
 - Provide staff and time for intervention implementation
 - Use project's intervention toolkit
 - Internet capability



Participating Schools

- 61 participating schools
 - From 8 states in the Midwest and Northeast
- Differing levels of RtI readiness
 - Awareness and understanding of Rtl
 - Beliefs about universal screening and CBM
 - Time and resources dedicated to core reading instruction and reading intervention
 - Personnel responsible for universal screening/assessment and reading intervention



Participants

- 206 Teachers
 - K-3 general education teachers
 - Some familiar with data-based decision making
 - Ranged from 1-4 teachers per school
- 184 Interventionists
 - Varying roles within school
 - Difficulty in many schools finding personnel
 - Ranged from 1-4 teachers per school
- Approximately 6000 K-3 students



Procedure

- Teachers and interventionists in PD schools participated in onsite institute-based trainings and ongoing webfacilitated coaching from one of six RTI coaches
- Professional development focuses on:
 - using data to identify students with reading difficulties and to plan and evaluate interventions
 - implementing effective instructional practices and specific reading interventions
- Distance coaching occurred outside of class time (teachers) or during intervention delivery via a "bug-in-the-ear" approach (interventionists)
- The impact of PD with coaching on teacher and student outcomes was assessed via multiple measures



Teacher/Interventionist Data Collection/Outcome Measures

- Teacher/Interventionist Knowledge (pre-post)
 - Data-Based Decision Making Knowledge for Reading (Ihlo, Parisi, & Glover, 2009) (33 items)
 - Teacher Knowledge of Reading and Reading Practices (Carlisle, Johnson, Phelps, & Rowan, 2008) (13 items)
- Teacher/Interventionist Perceptions (rated 1-4; pre-post)
 - Importance of DBDM and reading instructional components
 - Skills related to DBDM and reading instructional components (self-efficacy)
- Teacher Logs for DBDM
 - Coded based on 13-item DBDM rubric
- Intervention videotaping
 - Coded based on observational rubric



Student Data Collection/Outcome Measures

- DIBELS Next (Fall, Winter, & Spring)
- Woodcock Johnson Tests of Achievement Reading (Pre-Post)
 Randomly selected 4 intervention students/classroom





Project READERS Professional Development Institutes





Training for Teachers & Interventionists

- Teacher trainings provided content around the rationale and "how to" of data-based decision making for students struggling with reading
 - Included didactic training and active participation through the use of scenarios and real students data
- Intervention trainings provided support in effective delivery of reading interventions
 - Included training on effective teaching practices as well as training on specific intervention protocols
 - Included modeling and opportunity for practice of intervention delivery with feedback



Teacher Institute

- Day 1
 - Rationale for Project READERS & Data-based Decision Making
 - DIBELS Next Administration & Scoring
- Days 2
 - What & Why of RTI
 - Effective Instruction delivery
 - Effective Instruction content (Big 5)
 - Differentiating core instruction
 - Overview of Problem Solving and Intervention Planning Process
- Day 3
 - Using screening data to identify students who may need additional support/intervention
 - Conducting Survey Level Assessment to determine level for progress monitoring
 - Informal analysis of error patterns to further analyze reading concern & identify skill area needs for intervention



Teacher Institute (cont.)

Day 4

- Key elements of effective intervention
- Flexible grouping practices
- Monitoring fidelity of intervention
- Documenting intervention
- Preview of interventions used within Project READERS

Day 5

- Data needed for decision making
- Analyzing intervention data 5-point rule, examining trend & growth rate, and examining level of progress
- Potential decisions
- Alterable components for strengthening and/or intensifying intervention



Interventionist Training

Intervention Institute (4 days of training)

- Content
 - Managing small group instruction/behavior
 - Explicit instructional techniques (e.g., pacing, signaling, error correction)
 - Delivery of each intervention used in Project READERS
 - Intervention documentation (including self assessment of fidelity)

Structure

- Didactic instruction related to rationale for explicit instructional techniques
- Preview of intervention materials
- Model of specific formats/aspects of lessons from each intervention
- Practice with feedback



Characteristics of Intervention Programs Used in Project READERS

- Empirically-supported programs
- Comprehensive, systematic scope & sequence, scripted
- Explicit instructional delivery methods
- Emphasis on mastery
- Included in-program assessments
- System for managing small-group behavior



Suggested Guidelines for Intervention Delivery

- Deliver 5 days per week for at least 30 minutes
- Groups of 3-5 students
- Complete self assessment of fidelity
- Complete intervention documentation (lesson progress, student attendance, intervention duration, student accuracy & engagement in intervention)



Project READERS Coaching





Coaching in the Literature

- Thoughts on coaching in the literature
 - Coaching is not well-defined
 - Lack a systematic process for coaching
 - Most studies don't link coaching to results for students



Project READERS Coaching

- One-to-one coaching
- Focus on application of training content
- Systematic, protocol-driven process
 - Assisting teachers in
 - reviewing data
 - using data to differentiate instruction
 - developing intervention plans
 - evaluating student progress
 - Assisting interventionists in
 - implementing high quality interventions with fidelity



Training and Support for Coaches

- Content training
- Protocol training
- Protocol practice
- Coach supervision video feedback
- Coach group meetings
- Coach self reflection and peer feedback



Project READERS Coaching

DBDM visits

- Conducted with general education teachers
- Outside of classroom instruction
- Protocol driven
- Walk teachers through process of using data to inform instruction and intervention

Coaching Calls

- Check in with teachers and interventionists
- Answer questions between coaching sessions
- Give teachers reminders about sending in paperwork

Interventionist Implementation visits

- Observe intervention implementation live
- Provide feedback during instruction
- Debrief following the session

Outside of coaching sessions

- Attend training
- Read articles
- Review teachers' data, logs, plans, videos
- Answer emails



DBDM Coaching





DBDM Coaching Sessions

Focused on application of content covered in the most recent Teacher Institute session

Structure of sessions:

- 1. Updates on progress/tasks from previous coaching session
- 2. Review of content from the Institute relevant to next step in the process
- 3. Review of relevant data (e.g., screening, progress monitoring)
- 4. Guided practice
 - a. Coach walks through next step with the teacher using 1 student from the class
 - b. Teacher walks through next step with a second student
- 5. Preview next coaching visit
- 6. Set teacher & coach next steps



	ach: Teacher: te: School:	
DBDM Coaching Protocol Session 1		
	Start recording with 00V00 or the video camera	
	Record Start Time:	
	Greeting and Agenda-approximately 2 minutes ☐ Open the meeting with a greeting, and thank the teacher for his/her willingness to participate ☐ Set the agenda. Refer to Handout 1: Agenda DBDM 1 ■ Statement of coaching session objective for today ■ Review content, data, practice together ■ Teacher next steps ■ Next meeting	
	Statement of Coaching Session Objective-approximately 1 minute ☐ Analyze universal screening data and validation data to identify students for whom additional assessment data are necessary and prepare for Survey Level Assessment	
	Updates from last Teacher Institute − approximately 1 minute □ Check to determine if teacher next steps were completed • Conducted validation assessment for all students who did not meet benchmarks according to Project READERS guidelines	
	Content Review-approximately 5 minutes ☐ Using Handout 2: Review slides, review content from the Teacher Institute ☐ Conducting survey level assessment to determine progress monitoring level	
Coaching Survey Level Assessment: Conduct a Survey Level Assessment for all		

Guidelines | students not meeting benchmarks in grades 1, 2, and 3.



Refer to **Handout 5**: *SLA Flowchart* to determine progress-monitoring level. Monitor progress at instructional level weekly and grade level monthly.



Intervention Coaching



Intervention Implementation Coaching Visits (Bug-in-Ear)

What coaches are looking for:

Student behaviors

- Responding in unison on cues
- Engagement in lesson
- Accuracy of responses

Teacher behaviors to consider (based on student behavior)

- Adherence to the intervention script
- Pace
- Signals
- Effectiveness of interventionist modeling
- Provision of ample opportunities for students to respond
- Provision of immediate corrective feedback for student errors in "I do, we do, you do" format
- Effectiveness of individual turns



Intervention Implementation Coaching (cont.)

Additional look fors in side-by-side coaching

- How were the students seated?
- How did the interventionist start the lesson?
- How did the interventionist "handle" off-task behavior?
- Were any students too high/low for the group? Are the students placed correctly in the program?
- What specific praise statements did you hear?





Intervention Implementation Coaching: Bug-in-Ear Protocol

- Provide positive feedback interventionist and students
- Provide brief assignment for students
- Quickly and softly describe the concern
- Provide rationale for suggested change
- Praise students for working & quickly ask about task
- Model suggested change for the interventionist
- Have interventionist continue by repeating the activity where you stopped him/her
- Provide positive feedback for interventionist



Coach: Date:	Interventionist: School:
	Implementation Coaching Session Protocol (Side-by-side coaching) (Interventionist)
Intervention	n: Lesson:
Number of	students in group:
Date remine	der email sent:
□ Sta	rt recording with Screenium or the video camera
□ 👸 Rec	ord Start Time:
Side-by-Side	Coaching look for in side-by-side coaching
000000000000000000000000000000000000000	Adherence to the intervention script Pacing Clear signaling Interventionist modeling Ample opportunities for students to respond Immediate corrective feedback for student errors in "I do, we do, you do" format
Area(s) for in	nprovement:
0 0 0	Quickly and softly describe the concern (keep it brief and relate it to student behavior) Provide rationale for suggested change – related to student behavior Praise students for working on assignment & quickly ask about the assignment Model the suggested change for the interventionist before they start again
0	him/her
Briefly descri	Provide positive feedback for interventionist ibe suggested change & rationale provided:
How were How did th How did th Were any s What speci Are the stu	bservation Questions for Feedback Session the students seated? ne interventionist start the lesson? ne interventionist "handle" off-task behavior? students too high/low for the group? ific praise statements did you hear? idents placed correctly in the program? Stop recording; save the Screenium or finalize the DVD

Video example of intervention implementation coaching (bug-in-ear)



Intervention Implementation Coaching: Debriefing protocol

Have interventionist discuss her/his implementation in each area (i.e., modeling, providing corrective feedback, etc.)

Use fidelity checks as a guide

Provide positive feedback from coaching session

- Begin with positive feedback on what went well
- Focus on how interventionist behavior impacted student behavior

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Intervention Implementation Coaching: Debriefing Protocol (cont.)

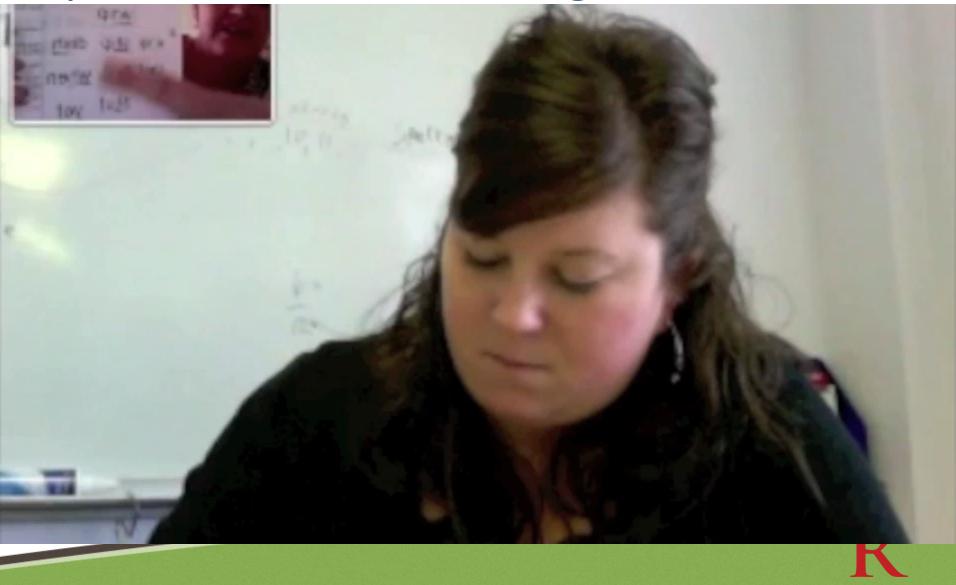
- Coach for improvement
 - Review area(s) for improvement based on side-by-side coaching
 - Review and model suggested change
 - Review rationale for change or why that item needs to be implemented
 - Have interventionist practice suggested change
 - Provide feedback on practice

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Coach: Interventionist:	Coach:	
Date: School:	Date:	School:
Implementation Coaching Protocol Session Debriefing Sessions 2-7 (Interventionist)		Coaching Visit Notes
Start recording with Screenium or the video camera	Keep it up!!	
Record Start Time:		
Area(s) of improvement identified from last session:		
Update on progress with items for improvement from the last session State area(s) of improvement identified from last session Have interventionist discuss implementation in the area(s) identified for improvement from the last session Discuss coach feedback on implementation in the area identified for improvement from the last session		
Discussion of Today's Coaching Session: Have interventionist discuss her/his implementation in each area (i.e., modeling, providing corrective feedback, etc.)		
Notes from interventionist:		_
□ Provide positive feedback from coaching session o Begins with immediate positive feedback on what went well o Focus on how interventionist behavior impacted student behavior Notes:		
	Practice	
Coach for improvement Review area(s) for improvement based on side-by-side coaching Share portions of the video to reinforce area(s) of strength & area(s) for improvement (optional) Review and model suggested change Review rationale for change or why that item needs to be implemented Have interventionist practice suggested change Provide feedback on practice Notes:		
☐ Identify additional suggestions for areas of improvement		
 Check to make sure the interventionist is completing the intervention documentation and fidelity check daily (ask to see the documentation and fidelity checks) 		
□ Next steps ○ Review positives and item(s) for improvement ○ Give interventionist written copy of plan for improving implementation		
☐ Ensure next meeting date is set. Record date of meeting: Please record additional notes from this coaching session:		
Record Stop Time: Stop recoding; save the Screenium or finalize the DVD ProjectREADERS	Next Coaching Session:	

Video example of intervention implementation debriefing session



Common Obstacles to Implementation

- Screening efforts
- Intervention time and staff
- Time for coaching calls
- Core curriculum



Facilitating Implementation

- Clear and consistent communication with and between school and district stakeholders
 - All team members understood goals and expectations
 - Shared data with all stakeholders
 - Administrators were aware of importance of project and supported staff (e.g., intervention teacher does not proctor exams during intervention time)



Facilitating Implementation

- Integrating project within existing school structure or making feasible changes
 - Utilize current resources (e.g., intervention times)
 - Schedule "tweaks" or changes
 - Student intervention group changes



Data Analysis & Results

 Initial Research Question: What is the impact of professional development with web-based coaching on teacher/ interventionist knowledge, perceptions, and practice?



Data Analysis & Results

 3-level multilevel model (time points within teachers within schools) examined the fixed effect of time by treatment interaction



Data Analysis & Results – Knowledge & Beliefs

- Teachers participating in PD had a greater increase in:
 - Data-based decision-making knowledge
 - Perceived skills pertaining to data-based decision making
- Interventionists participating in PD had a greater increase in:
 - Reading instructional knowledge
 - Perceived skills pertaining to reading instruction





Data Analysis & Results – Teacher Practice

 Teachers participating in PD also exhibited greater databased decision making than control teachers (based on coded logs)



Participant Perspectives

Comments from Teachers

- "Being able to converse one on one and ask questions and get immediate feedback was priceless!"
- "I really liked getting ideas on what to do with different groups of kids, help on how to group kids, what materials to use for small groups, and having [my reading coach] as a sounding board for ideas!"

Comments from Interventionists

- "My coach listens to my concerns and helps me become a better interventionist."
- "When I have questions [my reading coach] is always willing to answer them right away or show me how to do better with the students."
- "Having the coach give me feedback on what I was doing right and what I needed to change."
- "The immediate feedback gave me the opportunity to see my coach model certain skills."



Conclusions

- Teacher and interventionists who received PD with coaching exhibited a greater increase in knowledge, perceived skills, and practice (as hypothesized)
- PD with distance coaching appears to be an efficient/effective approach for supporting teachers in implementing RT
- This distance-mediated approach may be useful when local expertise is not available





Next Steps

- Preliminary findings
 - These initial findings are for teacher outcomes; analysis of <u>student</u>
 <u>outcome data</u> is currently under way
 - Video observations of intervention implementation will be completed in spring 2014
- Future investigations of the implementation process and school stakeholders' integration of RTI into service delivery systems would also be a useful complement to this study



References

- Al Otaiba, S. & Torgesen, J. (2007). Effects from intensive standardized kindergarten and first grade interventions for the prevention of reading difficulties. In S. R. Jimerson, M. K. Burns, & A. M. Van der Heyden (Eds.), The Handbook of Response to Intervention: The Science and Practice of Assessment and Intervention (pp. 212-222). New York, NY: Springer.
- Felton, R.H., & Pepper, P.P. (1995). Early identification and intervention of phonological deficits in kindergarten and early elementary children at risk for reading disability. School Psychology Review, 24, 405-414.
- Francis, D. J., Shaywitz, S. E., Stuebing, K. K., Shaywitz, B. A., and Fletcher, J. M. (1996). Developmental lag versus deficit models of reading disability: A longitudinal, individual growth curves analysis. Journal of Educational Psychology, 88(1), 3-17.
- Joyce, B., & Showers, B. (2002). *Student achievement through staff development* (3rd ed.). Alexandria, VA: Association for Supervision and Curriculum Development.
- Juel, C. (1988). Learning to read and write: A longitudinal stuffy of 54 children form first through fourth grades. Journal of Educational Psychology, 80, 437-447.
- Shaywitz, S. E., Fletcher, J. M., Holahan, J. M., Schneider, A. E., Marchione, K. E., Stuebing, K. K., Francis, D. J., Pugh, K. R., and Shaywitz, B. A. (1999). Persistence of dyslexia: The Connecticut longitudinal study at adolescence. Pediatrics, 104(6), 1351-1359.
- Torgesen, J.K. (2002). The prevention of reading difficulties. Journal of school psychology, 40, 7-26.
- Vaughn, S., Wanzek, J., & Fletcher, J. M. (2007). Multiple tiers of intervention: A framework for prevention and identification of students with reading/learning disabilities. In B. M. Taylor & J. E. Ysseldyke (Eds.), *Effective instruction for struggling readers, K-6* (pp 173-195). New York: Teacher's College Press.



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