

Empowering Teachers with Low-Intensity Strategies to Support Instruction: A Model for Professional Development and Training

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Goals

- Provide researchers, coaches, and administrators with a professional development model through our **Empowering Teachers Project** that can be used to support teachers and staff
- Provide teachers and staff with a resource for developing their skills of **direct observation** and **low-intensity strategy implementation**.
- See **increases in student engagement** as a result of participating in instructional choice



Agenda

- Introduction to the **Empowering Teachers Project**
- A Look at **Momentary Time Sampling**
 - Training Procedural Fidelity
- A Look at **Instructional Choice**
 - Training Procedural Fidelity
- **Results from Years 2 & 3**



Empowering Teachers

- A long-term collaboration between Lane, Oakes, & Ennis which began in 2013
- Began as an unfunded project
- Obtained funding to continue efforts and fine tune our professional development model through the IES Special Education Research Training Grant (2015-2019)

Empowering Teachers II





Empowering Teachers II

- Three elementary schools in one school district (suburban, large)
- Students with externalizing, internalizing, and co-morbid behavior patterns AND at-risk for low academic achievement

2016-2017	9 to 12 Teachers and students in 3 rd Grade
2017-2018	9 to 12 Teachers and students in 2 nd & 3 rd Grade
2018-2019	Up to 120 students in 1 st through 3 rd Grade

6 Schools in 2018-2019

Screening Measures

- Academic
 - STAR Assessments Math & Reading
 - **Students below benchmark**
- AND**
- Behavioral
 - Student Risk Screening Scale – Internalizing/Externalizing (SRSS-IE; Lane & Menzies, 2009)
 - **Students displaying moderate and/or high risk behaviors**

2016-
2017 Also
used the
SSBD




Research Questions

- 1) What are the necessary elements, support materials, and intervention steps of an effective training model to empower teachers to implement IC with limited university support with students with and at-risk ED?
- 2) Are limited university support models of teacher implemented IC feasible in classroom settings?
- 3) To what extent can teachers implement IC with limited university support with procedural and treatment fidelity?
- 4) To what extent can IC implemented by teachers with limited university support increase the academic engagement and of students with and at-risk for ED and low academic achievement?
- 5) To what extent do students with internalizing, externalizing, and comorbid behavior patterns respond differently to IC implemented by teachers with limited university support?




RQ1

Direct Observation of Behavior: Momentary Time Sampling



*Comprehensive, Integrated
Three-Tiered Model of Prevention*



Agenda

- Overview of Direct Observation
 - Momentary Time Sampling
- Behavioral Definitions
 - Active Academic Engagement (AAE)
 - Passive Academic Engagement (PAE)
 - Off-Task (OFF)
- Completing Recording Forms
- Inter-observer Agreement



What is direct observation?

- Direct observation involves collecting data while the behavior is actually occurring
- Benefits of direct observation include:
 - It is a objective form of measurement
 - More reliable than some indirect forms of measurement
 - Allows for both formative and summative evaluation
 - Makes it possible to determine the effects of interventions or strategies on students' behavior

Alberto & Troutman, 2015; Maag, 2007



When will data be collected?

- Direct observation data will be collected:
 - During the same time/activity each day
 - Baseline
 - Intervention
 - Follow up



Active Academic Engagement (AAE)

- AAE is recorded when a student is actively engaged in academic responding:
 - Writing
 - Reading aloud
 - Raising a hand to answer a teacher's question
 - Talking to a teacher and/or peer about the assigned material
 - Typing or writing an answer
 - Looking up a word in a dictionary/book

Behavioral Observation of Students in Schools (Shapiro, 2004)



Nonexamples of AAE

- Engaging in off-task behavior (doodling, sleeping, fidgeting without working)
- Talking about nonacademic materials
- Walking to another area of the room
- Calling out
- Aimlessly flipping the pages of a book
- Listening to a lecture
- Looking at an academic worksheet
- Reading assigned material silently

Behavioral Observation of Students in Schools (Shapiro, 2004)



Momentary Time Sampling Recording Form

Empowering Teachers with Low-Intensity Strategies:
A Focus on Instructional Choice to Support Instruction
2-min Momentary Time Sampling

Date: _____ Observer: _____ Activity _____ Student: _____
(computer, small group, individual & content area)

ACADEMIC ENGAGEMENT: Circle the behavior that the student was displaying at the exact moment the timer pulsed.
AAE = actively engaged in academic responding: *OFF* = engaging in activities not related to the task at hand (i.e., not following teacher directions):

- Writing
- Reading aloud
- Raising a hand to answer a teacher's question
- Talking to a teacher and/or peer about the assigned material
- Typing or writing an answer
- Looking up a word in a dictionary/book
- Listening to a lecture
- Looking at an academic worksheet
- Reading assigned material silently
- Looking at the blackboard during teacher instruction
- Listening to a peer respond to a question

- Dozing/sleeping, fidgeting without working
- Aimlessly looking around the classroom
- Reading, drawing or writing on unassigned material
- Talking about nonacademic tasks or without permission
- Walking to another area of the room
- Calling out
- Aimlessly flipping the pages of a book
- Physically touching another student without permission
- Bending/reaching (e.g., picking up a pencil on the floor)
- Turning away from the classroom instruction
- Making any sounds, such as whistling, or humming

	Monday			Tuesday			Wednesday			Thursday			Friday		
9:02	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:04	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:06	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:08	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:10	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:12	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:14	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:16	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:18	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:20	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:22	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:24	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:26	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:28	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:30	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:32	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:34	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:36	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:38	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
9:40	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF	AAE	FAE	OFF
TOTAL															
-20	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%



How do I complete the data recording form?

- Step 1** Before observation begins, record students' the names, date, and observer.
- Step 2** Review the behavioral definitions prior to each observation.
- Step 3** Note the hour and minutes that you begin observing and record it on the Start Time.
- Step 4** When you (and the reliability observer) are ready to begin, start your interval timer.
- Step 5** Each time the interval timer beeps, circle the behavior observed.
- Step 6** Note the hour and minutes that you finish observing and record it on the Stop Time.



How do I complete the data recording form?

Step 7



Compute AAE, PAE, and OFF.

- Add up the number of behaviors circled for each column for each student (sum of each behavior).
- Divide this number by the total number of intervals observed.
- Multiply by 100 and record each students' AAE, PAE, and OFF.

Step 8



Calculate Interobserver Agreement (IOA)

- Check each interval. Count up the number of intervals in which both the primary and reliability observers have the same determination (e.g., both AAE, both OFF).
- Divide this number by the total number of intervals observed (agreements + disagreements).
- Multiply by 100 and record.

How do I collect IOA data?

- Independently
- Clear view of the student
- Timers synchronized
- Minimum of 25% of sessions



CFU

Empowering Teachers with Low-Intensity Strategies to Support Instruction II
Direct Observation – Check for Understanding

Name: _____ Date: _____

Score: _____ / _____ = _____ %


- 1) When can we change behavioral definitions?
 - a. It can only be changed twice during each study.
 - b. It must be kept consistent across all phases of the intervention (baseline, intervention, follow-up).
 - c. It can be changed each day if the research assistant or teacher think it is necessary.
 - d. It can be changed at the end of a phase (i.e., between baseline and intervention).

- 2) When will direct observation data be collected?
 - a. All day during the course of the intervention.
 - b. At various times throughout the day.
 - c. During the same time/ activity each day.
 - d. Whenever the observer can complete an observation.

- 3) Which of the following is an example of **AAE**? When a student...
 - a. Is listening to their teacher.
 - b. Reads on their math worksheet.

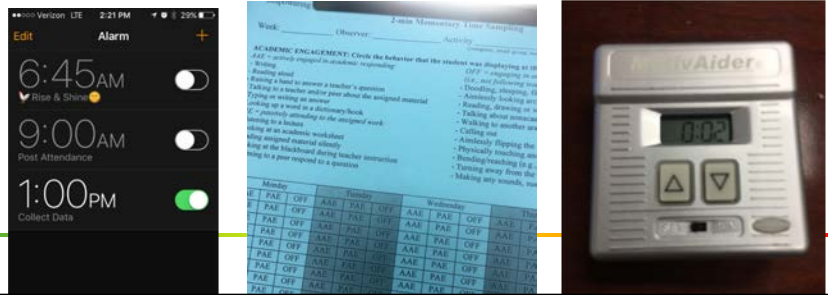
Observation Practice

- Video
 - Practice until you have three consecutive observations of 90% or higher IOA
- In Vivo
 - We will conduct IOA observations in the classroom until you have three consecutive observations of 90% or higher IOA



Implementation

- Set reminders for data collection
- Retrain if IOA dips below 80%
- Make sure the timer (e.g., MotivAider) is up high enough so they feel/hear the vibration/sound




RQ1

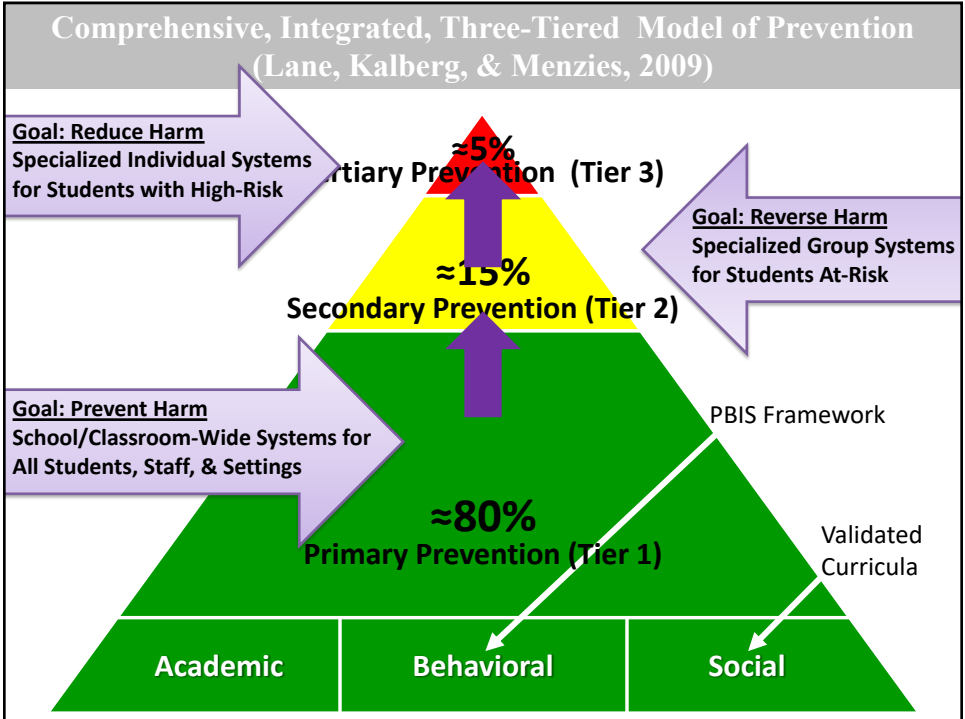
Low-Intensity Strategies: A Look at Instructional Choice

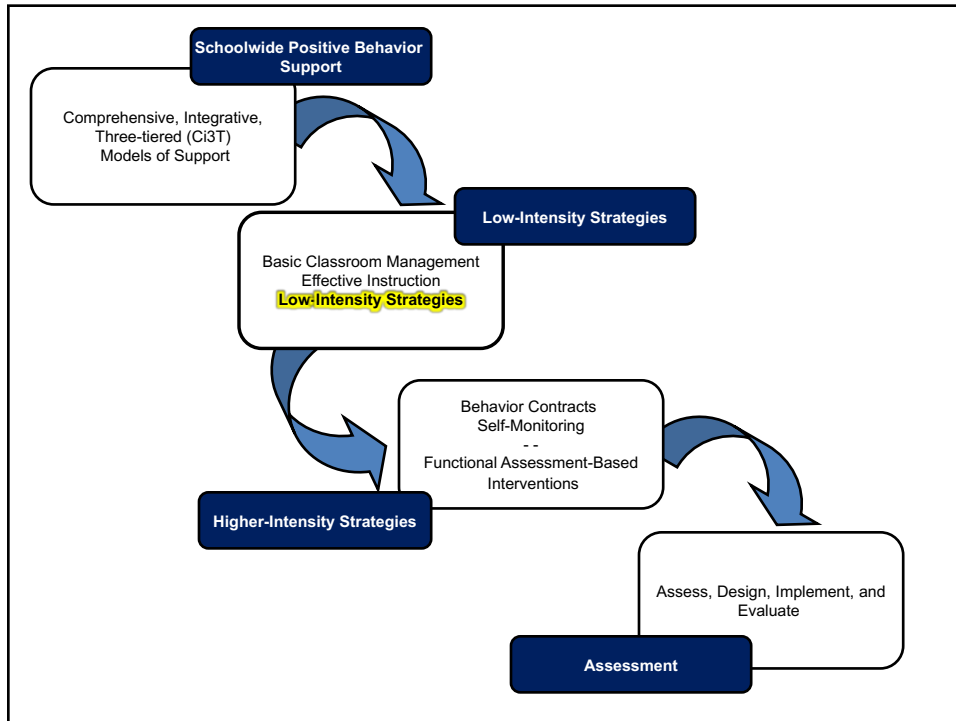
CI3T
Comprehensive, Integrated
Three-Tiered Model of Prevention

Agenda

- Comprehensive, Integrated, Three-Tiered (Ci3T) Models of Prevention
- A Look at **Instructional Choice**
 - What is instructional choice?
 - Why is instructional choice effective?
 - What does the supporting research for instructional choice say?
 - What are the benefits and challenges?
 - How do I implement instructional choice in my classroom?
 - ✓ Implementation Checklist
 - How well is it working? 🔍 Examining the Effects







Low-Intensity Strategies for Academics and Behavior

- Opportunities to Respond
- Behavior Specific Praise
- Active Supervision
- Instructional Feedback
- High p Requests
- Precorrection
- Incorporating Choice

Self-monitoring

Behavior Contracts

What is instructional choice?

- **Instructional Choice**
 - "...opportunities to make choices means that the student is provided with two or more options, is allowed to independently select an option, and is provided with the selected option" (Jolivet, Stichter, & McCormick, 2002, p. 28).
 - **Types of instructional choices** (Rispoli et al., 2013)
 - Across-activity choices
 - Within-activity choices



Examples of instructional choice

Across-activities Choices

- Paper, presentation, or YouTube video to show me what you know?
- Which activity would you like to do first?
- Pick a learning center.
- Make your schedule for the day.
- Think-Tac-Toe Boards

Within-activity Choices

- Crayons or sparkly markers?
- At your desk or in the library?
- In the reading corner or at your desk?
- Work independently or with a partner?
- Which book would you like to read?
- Finish in class or at home?
- Typed or handwritten?
- Even or odds?

Why is instructional choice effective?

- Easy
- Little time
- Offers students control
- Promotes decision making and other self-determined behaviors

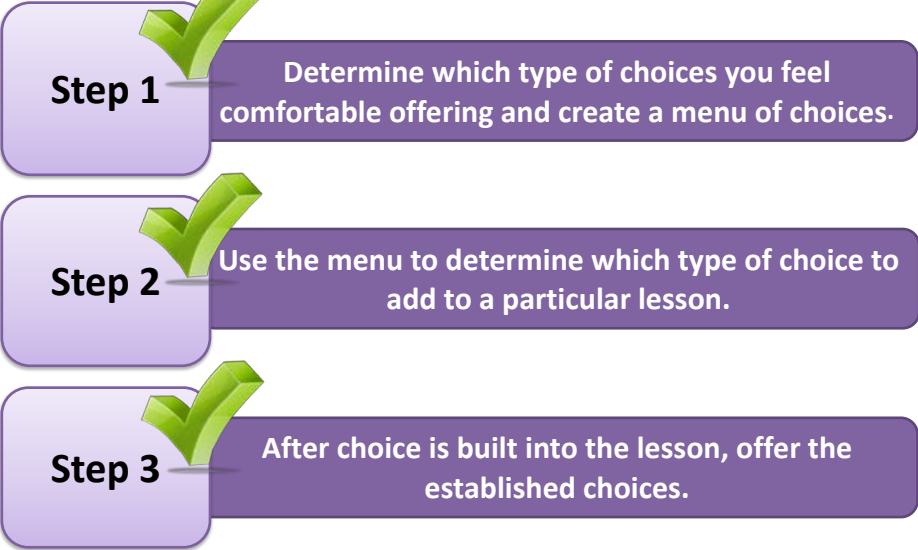


What does the supporting research for instructional choice say?

- Increasing engagement and decreasing disruption in elementary self-contained classrooms (Dunlap et al., 1994)
- Increasing time on-task, task completion, and accuracy in residential facilities (Ramsey, Jolivette, Patterson, & Kennedy, 2010)
- Increasing task engagement and improving academic performance in an inclusive setting (Skerbetz & Kostweicz, 2013)

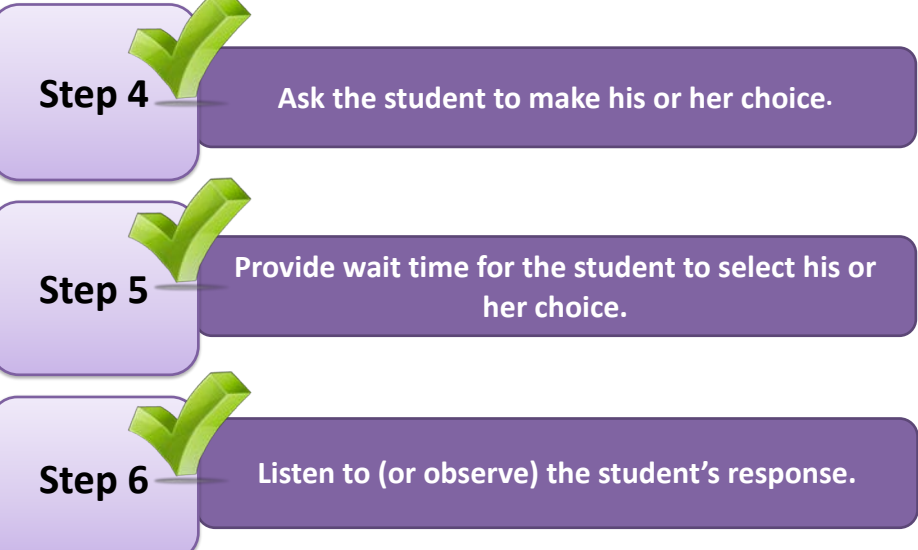


**How do I implement instructional choice in my classroom?
Implementation Checklist**



- Step 1** Determine which type of choices you feel comfortable offering and create a menu of choices.
- Step 2** Use the menu to determine which type of choice to add to a particular lesson.
- Step 3** After choice is built into the lesson, offer the established choices.

**How do I implement instructional choice in my classroom?
Implementation Checklist**



- Step 4** Ask the student to make his or her choice.
- Step 5** Provide wait time for the student to select his or her choice.
- Step 6** Listen to (or observe) the student's response.

How do I implement instructional choice in my classroom? Implementation Checklist

Step 7

Prompt the student to make a choice from one of the available options if the student has not made a choice within the time allotted.

Step 8

Reinforce the student's choice, providing them with the option they selected

Step 9

Offer students an opportunity to give feedback on the choice they selected.

Choice Menu

Between Activity Choices	Within Activity Choices
We have ____ activities to complete today. You can do these in any other that you want. Which one of these activities would you like	Where would you like to complete your reading log today? At your desk or on the carpet?
Choice Menu – Ms. C	
Within Activity Choices	
Where would you like to complete your math today? At your desk or on the carpet?	
Would you like to color pencils or a mechanical pencil to complete your work today?	
Are you going to complete the odd or even numbered problems on your worksheet today?	
Which math center would you like to complete today?	
What color marker would you like to use on your whiteboard today?	
Which math tools would you like to use today?	
After you read the chapter, do you want to make a bulleted list or a timeline of important events?	Which story are you going to read today? Choice A or choice B?
Today, you can choose which activities you	Would you like to read or listen to the next

Choice Menu

Daily Five Reading Activities	
Read with a partner	Read with an audiobook
Write a letter	Write a story
Action Reading	AR Test

Getting Familiar with the Forms

All treatment integrity forms have the same key for completing each observable item

1. Use the key and circle a 0, 1, or 2 for each item

2. Each form has a space to total the number of points earned by the teacher

Empowering Teachers II: Tier 2 Instructional Choice
Treatment Integrity - ACROSS TASKS

Teacher: _____ Self report Observer
 Week of: _____ 0 = Not in place 1 = Partially in place 2 = Fully in place

Component	MON	TUES	WED	THUR	FRI
1. Teacher offered the opportunity to select the sequence/type of task the student complete during reading.	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
2. Teacher made multiple tasks (n = _____) available on a list, in a packet, or via verbal directions.	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
3. Student made choice within 30 sec.	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
4. If needed, the teacher provided a follow-up prompt to make a choice.	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
5. Teacher honored the student's selected choice.	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
6. Teacher praised the student for making a choice selection.	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
7. Teacher praised students for completing assigned tasks.	0 1 2	0 1 2	0 1 2	0 1 2	0 1 2
TOTAL					
% = Total points earned divided by total number of points possible (14) * 100	%	%	%	%	%
IOA = Total agreements/Total possible items (agrees-disagrees) * 100	%	%	%	%	%

What does the student think about it?

PRE-INTERVENTION

Student: _____ Date: _____

Instructional Choice Student Social Validity Survey

Before we get started, what do you think?

	0 No, not really	1 Sometimes	2 Yes, definitely
1. I would like to have choices during math lessons.			
2. Having choices would make math lessons more enjoyable.			
3. I would get more of my work done if I had choices.			
4. Other students in my class would enjoy having choices.			

Percentage (Enter number/total number possible) / 100 = _____

Additional Comments: _____

POST-INTERVENTION

Student: _____ Date: _____

Instructional Choice Student Social Validity Survey

After we got started, what do you think?

	0 No, not really	1 Sometimes	2 Yes, definitely
1. I would like to have choices during math lessons.			
2. Having choices made math lessons more enjoyable.			
3. I would get more of my work done if I had choices.			
4. Other students in my class would enjoy having choices.			

Percentage (Enter number/total number possible) / 100 = _____

Additional Comments: _____

See "Instructional Choice Social Validity Student"

Completed by the student participating in the intervention at two time points: Pre and Post Intervention.



What does the teacher think about it?

PRE-INTERVENTION

STUDENT: _____ DATE: _____

Adapted Version of the Intervention Rating Profile-15

The purpose of this questionnaire is to obtain information that will aid in the selection of future classroom interventions. These interventions will be used by teachers of children with identified needs. Please circle the number which best describes your agreement or disagreement with each statement.

	Strongly disagree	Disagree	Slightly disagree	Slightly agree	Agree	Strongly agree
1. This would be an acceptable intervention for the child's needs.						
2. Most teachers would find this intervention appropriate for children with similar needs.						
3. This intervention would prove effective in supporting the child's needs.						
4. I would suggest the use of this intervention to other teachers.						
5. The child's needs are severe enough to warrant use of this intervention.						
6. Most teachers would find this intervention suitable for the needs of this child.						
7. I would be willing to use this intervention in the classroom setting.						
8. This intervention would not cause negative side effects for the child.						
9. This intervention would be appropriate for a variety of children.						
10. This intervention is consistent with those I have used in classroom settings.						
11. The intervention is fair as to handle the child's needs.						
12. This intervention is reasonable for the needs of the child.						
13. I like the procedure used in this intervention.						
14. This intervention would be a good way to handle this child's needs.						
15. Overall, this intervention would be beneficial for the child.						

Total score of all points circles, higher scores indicate higher acceptability, range 15-45

POST-INTERVENTION

STUDENT: _____ DATE: _____

Adapted Version of the Intervention Rating Profile-15

The purpose of this questionnaire is to obtain information that will aid in the selection of future classroom interventions. These interventions will be used by teachers of children with identified needs. Please circle the number which best describes your agreement or disagreement with each statement.

	Strongly disagree	Disagree	Slightly disagree	Slightly agree	Agree	Strongly agree
1. This was an acceptable intervention for the child's needs.						
2. Most teachers would find this intervention appropriate for children with similar needs.						
3. This intervention proved effective in supporting the child's needs.						
4. I would suggest the use of this intervention to other teachers.						
5. The child's needs were severe enough to warrant use of this intervention.						
6. Most teachers would find this intervention suitable for the needs of this child.						
7. I would be willing to use this intervention in the classroom setting.						
8. This intervention did not cause negative side effects for the child.						
9. This intervention would be appropriate for a variety of children.						
10. This intervention was consistent with those I have used in classroom settings.						
11. The intervention was a fair way to handle the child's needs.						
12. This intervention was reasonable for the needs of the child.						
13. I liked the procedure used in this intervention.						
14. This intervention was a good way to handle this child's needs.						
15. Overall, this intervention was beneficial for the child.						

Total score of all points circles, higher scores indicated higher acceptability, range 15-45

See "Social Validity Adapted-IRP15 Adult"

Completed by the teacher and/or parent participating in the intervention at two time points: Pre and post intervention.



Check for Understanding


Empowering Teachers with Low-Intensity Strategies to Support Instruction II
Instructional Choice – Check for Understanding

Name: _____ Date: _____



Score: _____ / ____ = _____ %

Directions: Choose the best answer.

1. What type of strategy is instructional choice?
 - a. School-wide strategy.
 - b. Low-intensity strategy.
 - c. Higher-intensity strategy.
2. How many types of instructional choice are there?
 - a. One: choose your task
 - b. Two: across-task and within-task choice
 - c. Three: across-task, within-task, and task-completion reinforcer choice
3. Offering a student the choice of where to work (at your desks, on the floor, in the library), with whom to work (independently or with a partner), and what materials to work with (marker, crayons, or colored pencils) are all examples of what type of choice?



Low-Intensity Strategies: A Look at Instructional Choice Results from Year 2



Study 1

- Within-Activity Choice

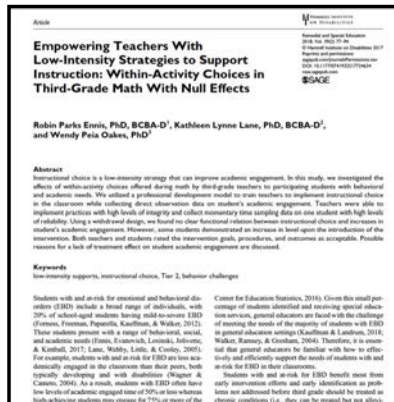
Participants	Teachers
4 students at-risk for EBD and low academic achievement (2 Hispanic males mod externalizing, 1 Black female high comorbid, 1 White male high internalizing)	2 with BA, 2 with MEd; Average Experience 6.75 yrs

Ennis, R. P., Lane, K. L., & Oakes, W. P. (2018). Empowering teachers with low-intensity strategies to support instruction: Implementing within-activity choices in third-grade math with null effects. *Remedial and Special Education, 39*, 77-94.



Major Takeaways

- High variability in responding due to diverse activities
- Limitations of active engagement during certain activities
- Potential for within-task choice to provide minimal motivation
- Lack of consideration of function




Study 2

- **Across-Activity Choice***One case from Year 3


Participants*	Teachers*
3 students at-risk for EBD and low academic achievement (1 Hispanic female internalizing, 1 Black female co-morbid, 1 Black male externalizing)	1 with BA, 2 with MEd; Average Experience 11 yrs

Ennis, R. P., Lane, K. L., Oakes, W. P., & Cole, S. (in review). Empowering teachers with low-intensity strategies to support instruction: Implementing across-activity choices in 3rd grade reading.



Major Takeaways

- Across activity choices may have allowed students with low academic achievement to select tasks they felt were more accessible
- Need to look at comparison peer data to determine if increases were comparable with peers



Study 3

- Within-Activity Choice

Participants*	Teachers*
6 students at-risk for EBD and low academic achievement (1 Black female co-morbid bx patterns, 5 White males – 2 with externalizing bx patterns, 3 with co-morbid bx patterns)	2 with BA, 4 with MEd; Average Experience 14.5 yrs

Ennis, R. P., Lane, K. L., Cole, S. E., & Oakes, W. P. (2018). *Empowering teachers with low-intensity strategies: Supporting at-risk students with instructional choice during reading*. Manuscript in preparation.



Goal

Teacher: Dumbledore

Baseline Data:

Mean	60.20
Standard Deviation	9.12
Slope	3.60
SE (Standard Error) YX	8.23

Teacher: Dumbledore

	Baseline	Intervention	Withdrawal	Intervention
Mean	59.67	83.82	54.20	78.20
Standard Deviation	8.26	5.08	20.50	7.61
Slope	1.60	0.06	-12.60	0.99
SE (Standard Error) YX	8.61	5.35	5.57	7.42

Goals for Intervention:

- 1) Our number one goal is to see an increase in level (i.e., increased mean). We anticipate engagement to be anywhere from 70 to 90% for high achieving students, so we hope we can see him rise to that level during intervention.
- 2) We would also like to see decreased variability (decreases in SD and SEyx), so that we see consistent responding on a daily basis (right now the range is 45 to 67).
- 3) Another goal is to see an increasing trend (positive slope) in his performance during intervention.


We saw a significant increase in level during both intervention phases. He also reached the goal of falling in the 70-90% range.

We saw decreased variability during both intervention phases.

We saw an increasing slope during both phases of the intervention.

RQ 3 **ACROSS: Fidelity/IOA**

		Treatment Fidelity			Inter-Observer Agreement
Teacher	Phase	Self-Report %	Researcher Sessions % (n)	Researcher %	DV Agreement % (Range)
Mrs. C	A ₁ Baseline	100	33.3(2)	100	94 (94)
	B ₁ Intervention	100	33.3 (2)	99	95.50 (94-97)
	A ₂ Withdrawal	100	40	100	95.50
	B ₂ Intervention	99.4	40 (2)	100	95.50 (94-97)
Mrs. S	A ₁ Baseline	98.66	33.3 (2)	100	92.5 (91-94)
	B ₁ Intervention	96.81	25 (4)	93.5	95 (94-97)
	A ₂ Withdrawal	100	25 (2)	100	92.5 (91-94)
	B ₂ Intervention	99	33.3 (2)	98.5	94 (94)



RQ 3 **ACROSS: Fidelity/IOA**

		Treatment Fidelity			Inter-Observer Agreement
Teacher	Phase	Self-Report %	Researcher Sessions % (n)	Researcher %	DV Agreement % (Range)
Mrs. M	A ₁ Baseline	100	33.3 (2)	100	92.5 (91-94)
	B ₁ Intervention	99	25 (4)	93.5	95 (94-97)
	A ₂ Withdrawal	100	25 (2)	100	92.5 (91-94)
	B ₂ Intervention	100	33.3 (2)	98.5	94(94)
Mrs. R	A ₁ Baseline	100	40 (2)	100	94 (4)
	B ₁ Intervention	95	30 (3)	96.33	93 (91-94)
	A ₂ Withdrawal	100	40 (2)	100	92.5 (91-94)
	B ₂ Intervention	99	33.3 (2)	100	94 (94)

High fidelity across sessions

Strong IOA between teachers and researchers

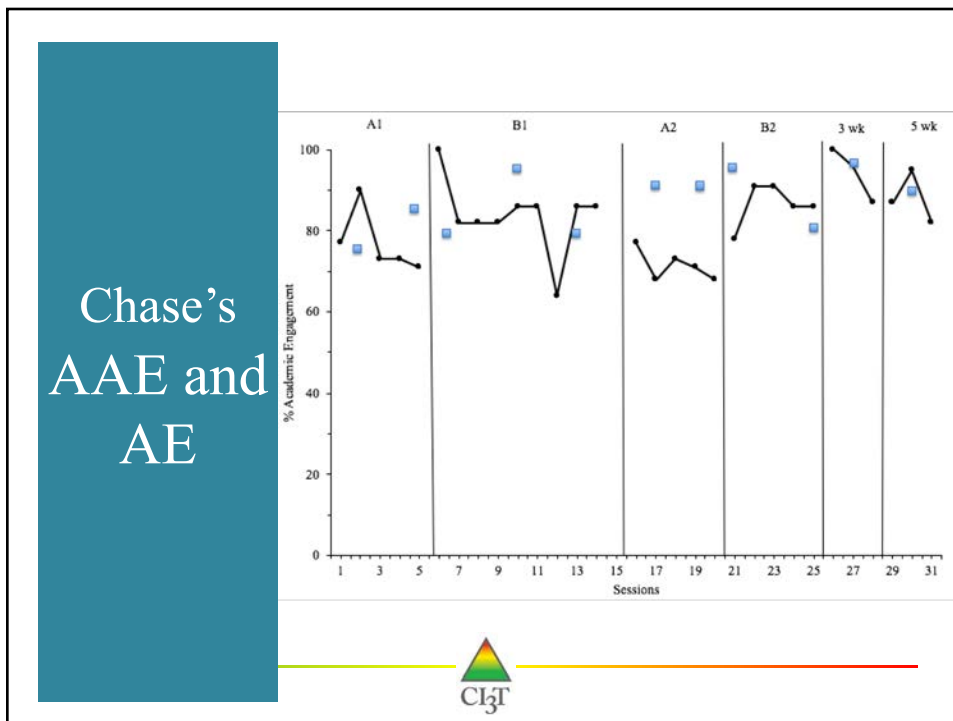
RQ 3

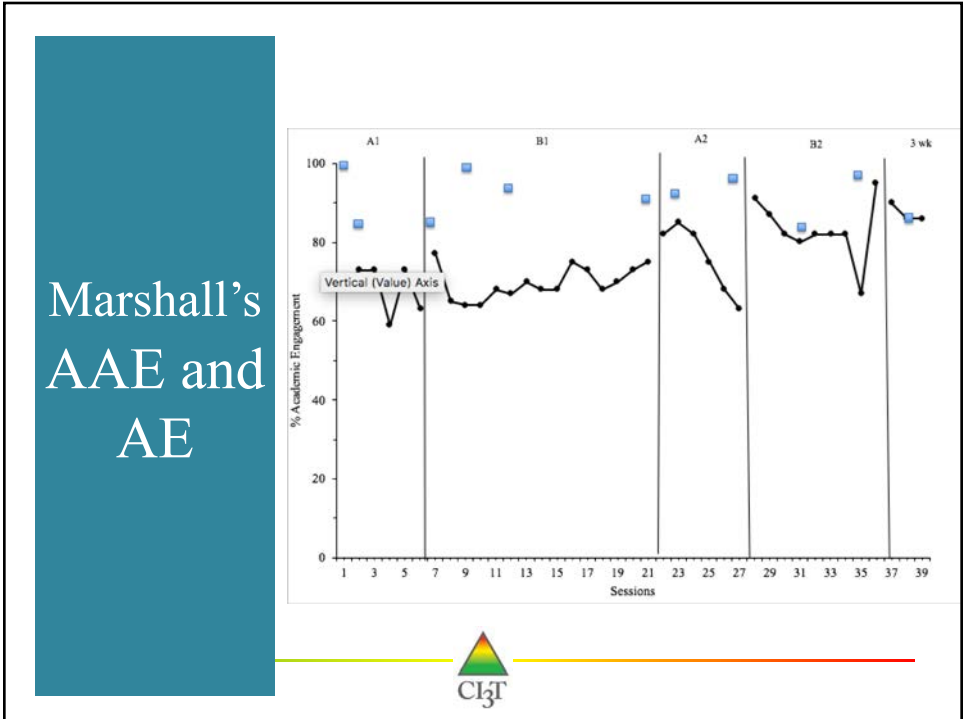
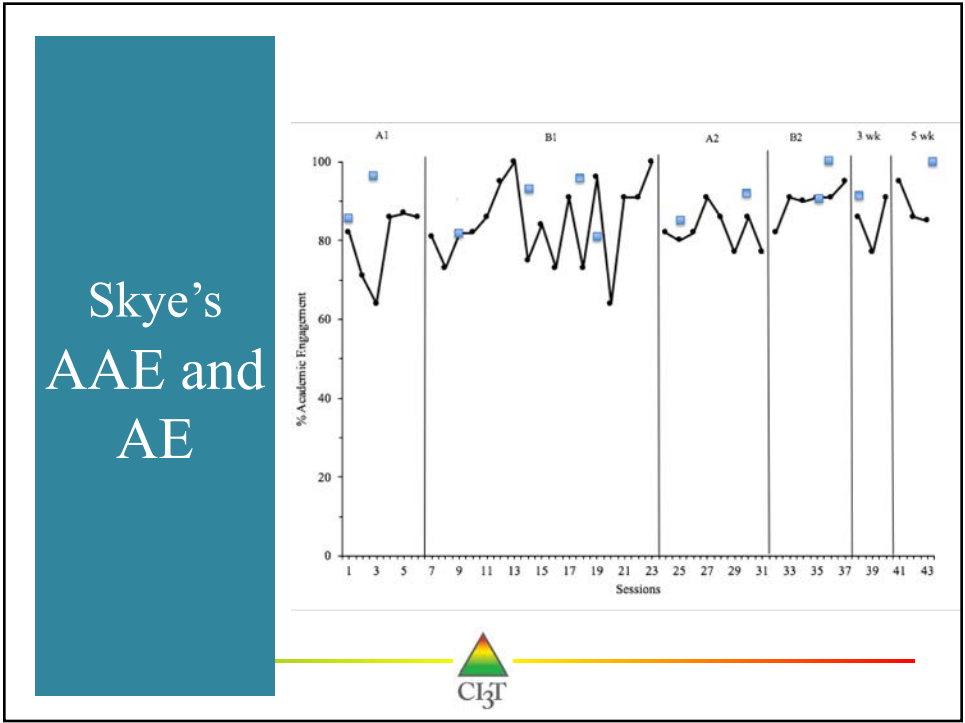
ACROSS: Fidelity/IOA

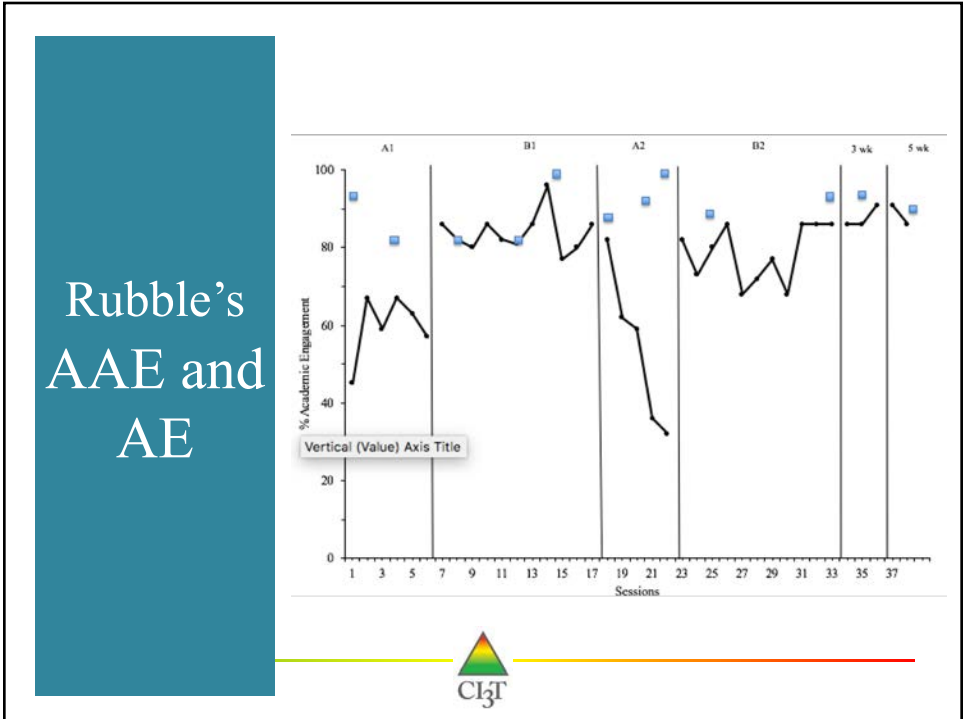
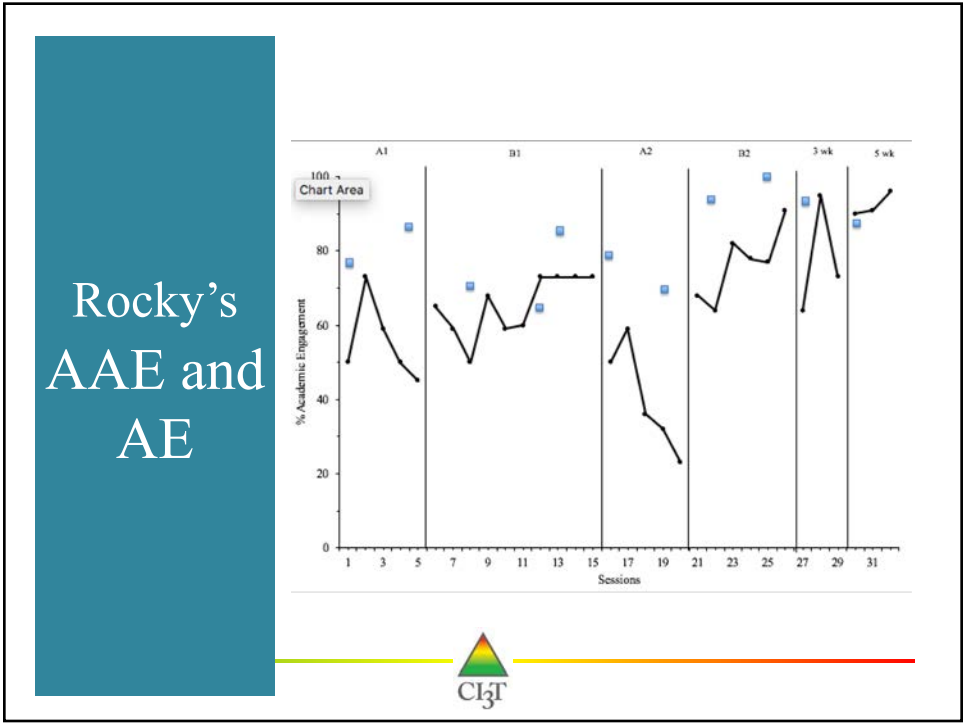
		Treatment Fidelity			
Teacher	Phase	Self-Report %	Researcher Sessions % (n)	Res %	DV Agreement % (Range)
Mrs. R	A ₁ Baseline	100	50 (3)	97.6	94 (91-100)
	B ₁ Intervention	100	27.27 (3)	100	97 (94-100)
	A ₂ Withdrawal	100	60 (3)	98.5	88 (82-94)
	B ₂ Intervention	100	27.27 (3)	97.3	98 (94-100)
Mrs. Z	A ₁ Baseline	100	33.3 (2)	100	92 (91-93)
	B ₁ Intervention	100	33.3 (3)	100	91.6 (91-93)
	A ₂ Withdrawal	100	33.3 (2)	97	91 (91)
	B ₂ Intervention	100	33.3 (2)	97	92.5 (91-94)

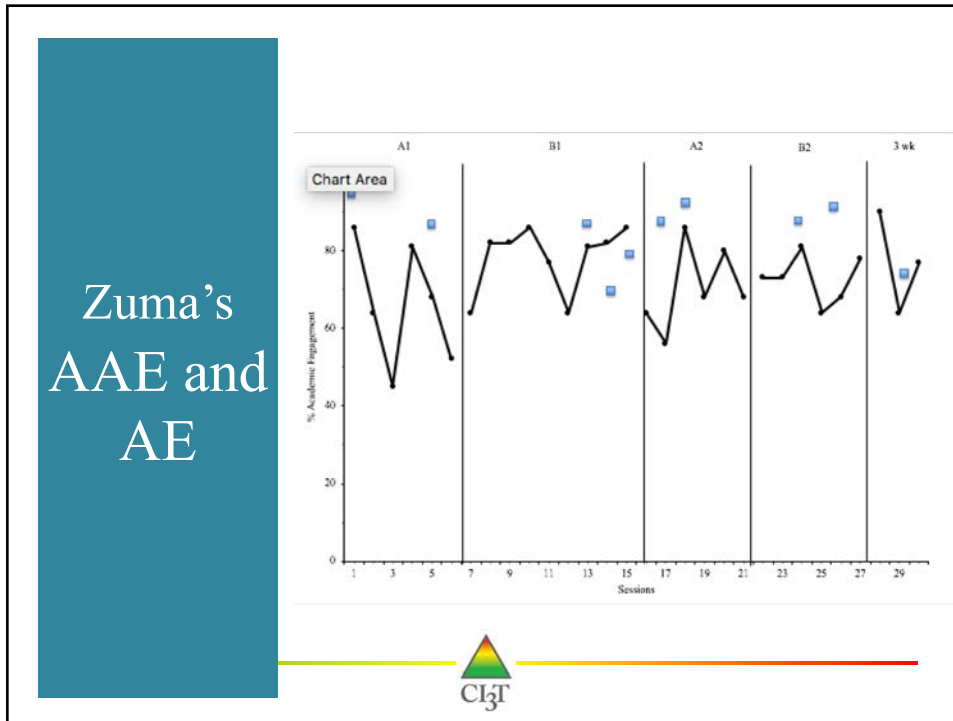
High fidelity across sessions

Strong IOA between teachers and researchers





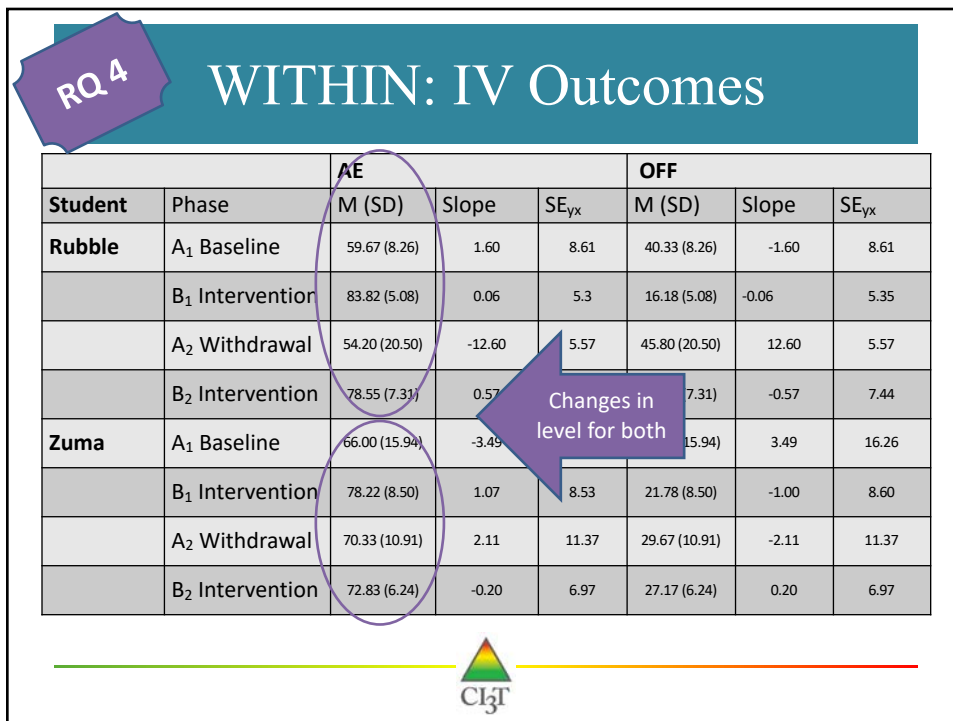
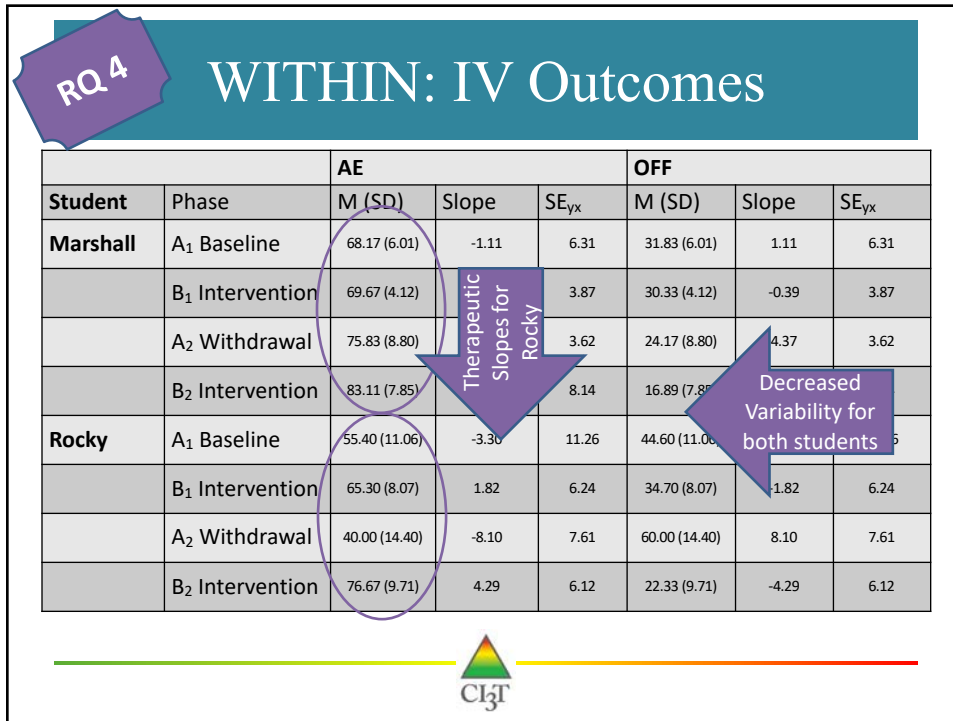




RQ 4

WITHIN: IV Outcomes

Student	Phase	AE		OFF			
		M (SD)	Slope	M (SD)	Slope	SE _{yx}	
Chase	A ₁ Baseline	76.80 (7.69)	-2.10	23.20 (7.69)	2.90	7.13	
	B ₁ Intervention	83.78 (9.24)	-1.27	9.16	16.22 (9.24)	1.27	9.16
	A ₂ Withdrawal	71.40 (3.78)	-1.50	3.40	28.60 (3.78)	1.50	3.40
	B ₂ Intervention	86.40 (5.32)	1.10	5.81	13.60 (5.32)	-1.10	5.81
Skye	A ₁ Baseline	79.33 (9.58)	2.57	9.27	20.67 (9.58)	-2.57	9.27
	B ₁ Intervention	84.53 (10.56)	0.48	10.61	15.47 (10.56)	-0.48	10.61
	A ₂ Withdrawal	82.62 (4.84)	-0.30	5.17	17.38 (4.84)	0.30	5.17
	B ₂ Intervention	90.00 (4.29)	0.73	10.00 (4.29)	-1.89	2.73	10.00



Study 3

- High fidelity across all teachers (96%+)
- High IOA between researchers and teachers (range, 88 - 100%)
- Acceptable SV ratings for teachers (range, 75-88 of 90) and students (range, 29-41 of 42)
- Functional relation for *five* students




Major Takeaways

- Narrowed the focus to reading in hopes that teachers would pick both choice types. However, all teachers selected within activity choice.
- We added a goal sheet to the training process to help teachers better understand the intent of the intervention and different ways to measure growth (i.e., not just an increase in level but also decreased variability and increased slope).
- We collected data on comparison peers to measure social validity of outcomes.



Study 4

- RCT Trial with up to 40 teachers
- Up to 3 students in each class (internalizing, externalizing, and co-morbid)
- Comparing Ci3T Tier 1 to Ci3T Tier 1 + Tier 2 Instructional Choice



TIERED INTERVENTION LIE

Learn more about Tier 2 and Tier 3 strategies and downloading supporting documents. In the

Instructional Choice

INSTRUCTIONAL CHOICE (POSTED AUGUST 14, 2015)

Preparing for Success

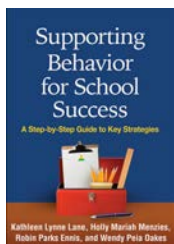
INSTRUCTIONAL CHOICE TRAINING MATERIALS	INSTRUCTIONAL CHOICE DIRECT OBSERVATION TRAINING MATERIALS
<p>(download all documents in a .zip [17.3 MB] file or individual files below):</p> <ul style="list-style-type: none"> ■ Voiced-over PowerPoint presentation (16.2 MB) ■ Voiced-over PowerPoint presentation notes (PDF) ■ Voiced-over PowerPoint presentation script ■ Check for understanding ■ Procedural fidelity checklist: .docx or .pdf ■ Treatment integrity, across-task: .docx or .pdf ■ Treatment integrity, within-task: .docx or .pdf 	<p>(download all documents in a .zip [27.4 MB] file or individual files below):</p> <ul style="list-style-type: none"> ■ Voiced-over PowerPoint presentation (27.4 MB) ■ Voiced-over PowerPoint presentation notes (PDF) ■ Voiced-over PowerPoint presentation script ■ Check for understanding ■ Procedural fidelity checklist: .docx or .pdf ■ Momentary time sampling data collection form: .docx or .pdf

Academics

▼ Tier 3: Individual De-Escalation Support

- PowerPoint presentation
- Intervention grid: PDF or MS-Word
- Implementation checklist
- Treatment integrity checklist
- Social validity, student forms

Related Resource



Lane, K. L., Menzies, H. M., Ennis, R. P., & Oakes, W. P. (2015). *Supporting behavior for school success: A step-by-step guide to key strategies*. New York, NY: Guilford Press.

Ci3T.org/pl

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