

### **Session Outcomes**

- Describe how tertiary (Tier 3) interventions are situated in a Ci3T model of prevention including the purpose and organization of Tertiary (Tier 3) Intervention Grids
- Describe a step-by-step process to implement Functional Assessment-Based Intervention (FABI) as a Tier 3 support.



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### **Agenda**

- 1. Welcome
- 2. Situating Tertiary (Tier 3) Interventions in Ci3T Models
- 3. Functional Assessment-Based Intervention (FABI)
  - 1. Introduction to FABI
  - 2. 5-Step Process to Implement FABI
- 4. Wrapping Up and Moving Forward

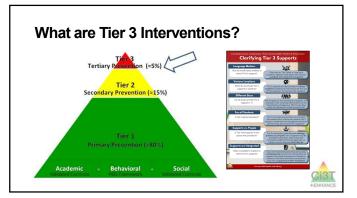


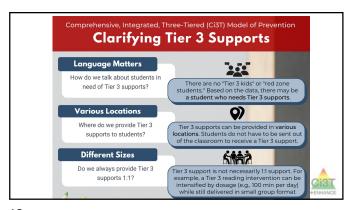
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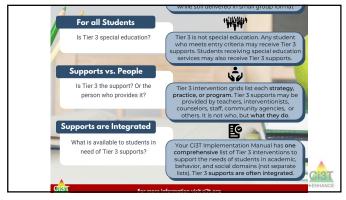
# Knowledge, Application, Impact Points Knowledge Application Impact Points Impact If you are in Kansas, you can earn 2 x PD points for application and 3 x for impact We are happy to review your materials before you upload!

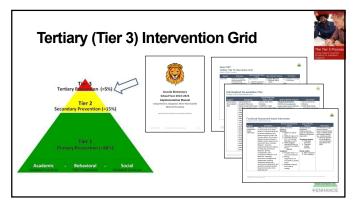


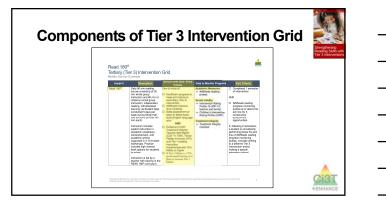
# **Situating Tertiary (Tier 3) Interventions in Ci3T Models**

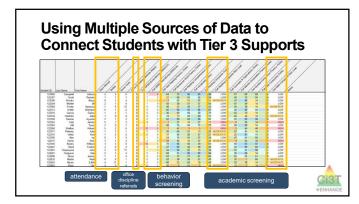


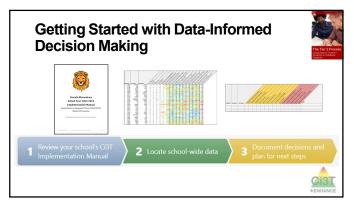












# Table Talk Introduce yourself – name, school, role/grade level taught What Tier 3 interventions are offered at your school?



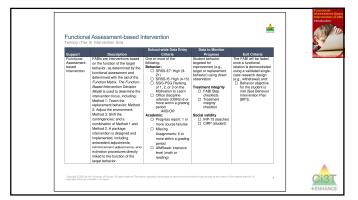
# Functional Assessment-Based Intervention (FABI)

An Overview of FABI

A 5-Step Process to Implement FABI



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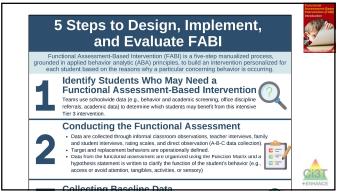
# What is Functional Assessment-Based Intervention (FABI)?

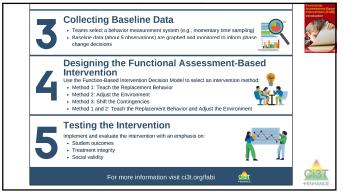
- Customized intervention designed for each student based on the reasons why a particular concerning behavior is occurring
- Developed through a five-step, teambased, manualized process
- Grounded in applied behavior analytic (ABA) principles (e.g., reinforcement, antecedent, consequence)



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### Why is FABI effective?

- Individualized based on the function of behavior (i.e., why the behavior occurs) and needs of the student and environment
- Focuses on skill-building and supporting pro-social behavior (i.e., replacement behavior)
- Step-by-step manualized process
- Team-based process fosters collaboration between educators, families, and the student



## **Building Your FABI Team**

- Two people who serve on this "standing" team
  - o Member of Ci3T Leadership Team
  - Staff with behavioral expertise (e.g., behavior specialist, instructional coach, counselor, school psychologist)
- Classroom teacher(s) of the student who might benefit from this support
- Family member of the student
- Student





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# What are the Benefits and Challenges of Implementing FABI?

### Benefits

- Collaborative, team-based process integrating student, educator, and caregiver voice and perspective
- Strong evidence-base demonstrating effectiveness for wide range of students (pre-K 12), behaviors, and settings
- Fully manualized process with templates and checklists to support design and implementation

### Challenges

- Time and resource intensive
- May require additional training (e.g., measuring behavior, ABC data collection)
- Adjustment from more "traditional" FBA/BIP practices



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# Functional Assessment-Based Intervention (FABI) as a Tier 3 Intervention

An Overview of FABI

A 5-Step Process to Implement FABI





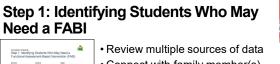


# **Step 1: Identifying Students Who May Need a FABI**



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# Need a FABI





- Connect with family member(s)
- Meet with student





# Step 2: Conducting the Functional Assessment



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# **Step 2: Conducting the Functional Assessment**





- Understanding the learning environment and context
- Records review
- Interviews
- Operationally define target behavior
- Rating scales
- · A-B-C data collection
- Use Function Matrix to identify the
   hypothesized function(s)
- hypothesized function(s)

  Identify replacement behavior



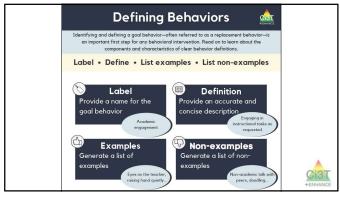
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# **Operationally Defining the Target Behavior**









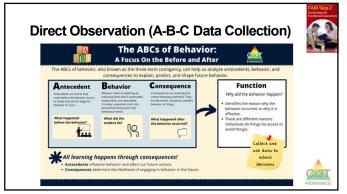


# Example Operational Definition Component Description Label Off-task Definition Off-task Off-task offined as attending to activities in class other than assignments. Examples Playing with materials inappropriately, talking to peers, putting head on the desk, drawing, and looking around the room Non-Examples Completing assignments using materials only for assignments, and watching the teacher when delivering instruction

# Example Operational Definition Component Description

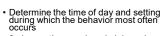
Verbal aggression
Verbal aggression is defined as any vocalization directed towards a
peer or adult at a volume above expected conversational level for a
given setting alongside use profanity or language that is not appropriate
for the setting.
Yelling "I hate you" at a voice level 3 during classroom instruction,
verbal threats directed towards peer (e.g., "if you don't stop, I'm going
to"), name-calling, profanity.
Level 3 voice level at recess, shouting out an answer during choral response, sighing ("uhhhggg"), negative self-talk (e.g., "this is too hard")

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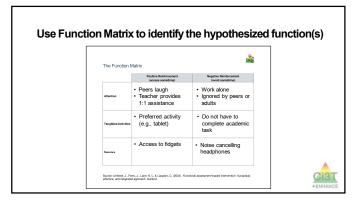
## **Direct Observation (A-B-C Data Collection)**



- 3 observation sessions (minimum)
- Aim to observe 8-10 occurrences of the target behavior or three hours of observations
- Record *only* instances of target behavior
- Each instance of the target behavior will be numbered and later placed in the Function Matrix

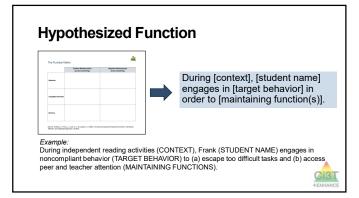


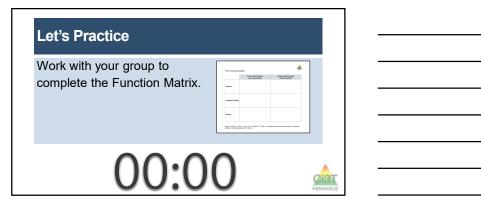
HO #	48	al Assessment-base	d Interventions (FABI)			F	
Obs	_		Da Da	ite:	Setting:		
Stu	Student Name:		Start Tin	ne:	End Time:		
Target Behavior:		lehavior:		Comments:			
Direc	tion	s: Complete one for	n per observation session.				
		Context	Antecedent	Behavior	Consequence	Function	
-			Princil breaks	Student throws pencil	Teacher Looks at student		
	1	Reading instruction	1,01000.0100				
	1 2	Reading instruction					
	3	Reading instruction	1,000				
	3	Reading instruction					
1	3 4 5	Reading instruction					
	3	Reading instruction					
	3 4 5 6 7	Reading instruction					
ber:	3 4 5 6	Reading instruction					



	Positive Reinforcement	Negative Reinforcement	
	(access something)	(avoid something)	
	Teacher Interview – "During Independent work time, frequently comes to me to ask a question during math. Often, she already knows the answer"		
Attention	Parent Interview "She wants me to check her homework every night. Not just one math problem but all of them."		
	ABC Data- 1.2, 1.3, 2.1, 2.4, 3.1		
Number of the observation		Records Review - Tammy's low grades were due to lack of class work completion.	
session		Teacher Interview- "She is the last one to get started when it is time for independent reading."	
	Number of the occurrence in the	Student Interview- "I hate worksheets, they're so boring"	
	observation session	ABC Data: 1.1, 1.4, 2.2, 2.3, 2.5, 3.2	
	(second instance of the behavior on Day 1)		
Sensory			



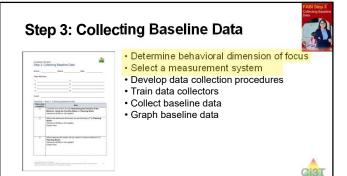


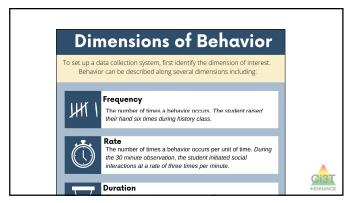


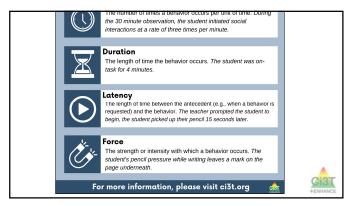


# **Step 3: Collecting Baseline Data**









### Select a Measurement System: Event-**Based**

- Types of event-based measurement:
  - Frequency
  - 。Rate
- Most appropriate for behaviors that are:
  - Countable and discrete (e.g., relatively brief, clear start and end, and uniform
  - Examples: talking out of turn, swearing, pushing



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## Let's Practice - Frequency Recording





## **Debrief – Frequency Recording**

- How many times did Jim say the word cake?
- · What about frequency recording was challenging?
- Given those challenges, how could the measurement procedures be improved?



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### Select a Measurement System: Time-**Based**

- Time Based
  - o Duration
  - Latency
  - $_{\circ}$  Interval  $^{'}$  (whole-interval, partial interval, momentary time sampling)
- · Most appropriate for behaviors that are:
  - Not countable or discrete (e.g., less defined start/end, span a period of time) and/or vary in length each time
  - o Examples of non-uniform behaviors include: academic engagement, off-task, leaving designated area (e.g., desk, carpet spot), tantrum





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## **Step 3: Collecting Baseline Data** Determine behavioral dimension of focus · Select a measurement system Develop data collection procedures Train data collectors · Collect baseline data · Graph baseline data Reminder- although we aren't discussing these today developing data collection procedures, training data collectors, and collecting baseline data are key components of this step!



# Step 4: Design the FABI



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## Step 4: Design the FABI



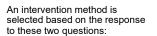


- Select an intervention method
- · Develop A-R-E intervention components Draft treatment integrity checklist
- Assess pre-intervention social validity
- Develop intervention materials
- Introduce FABI to educators and family
- Introduce FABI to student
- Revise and finalize FABI



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### **Function-Based Intervention Decision** Model

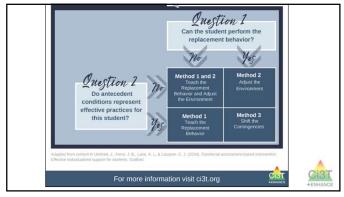


- 1. Can the student perform the replacement behavior?
- 2. Do antecedent conditions represent effective practices for this student?









### **A-R-E Components**

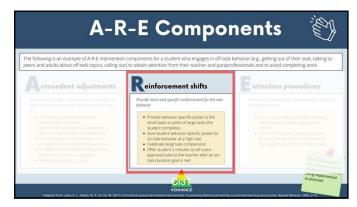


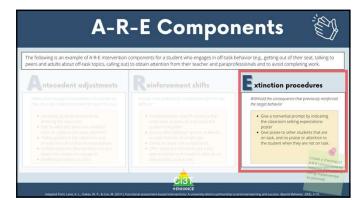
- Antecedent Adjustments adjusting the antecedent conditions to increase likelihood replacement behavior will occur and (if applicable) providing instruction in the replacement behavior
- Reinforcement Shifts reinforcing the replacement behavior to strengthen its occurrence
- Extinction Procedures ensuring that the target behavior is not followed by reinforcement



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# The following is an example of A-R-E intervention components for a student who engages in diff-task behavior (e.g., getting out of their seat, talking to peers and adults about off-task topics, calling out to obtain attention from their teacher and paraprofessionals and to avoid completing work. Antecedent adjustments Make small changes in environment to prompt the more, more disorder registerment behavior to occur - Generally geter student poly geter students poly completing the classroom. - Prompt peer student poly geter students poly completing the students with the student to engage in a student students and the students are students. - Prompt peer students poly geter students poly on the students with the expectations. - One prompt peer students poly on the students are student to engage in the students are students to expense in the students are students to engage in the students are students are students as the students are students are students and are students are students. - One provision students are students are students are students are students are students are students. - One provision students are students are students are students are students. - One provision students are students are students are students. - One provision students are students are students are students. - One provision students are students are students. - One provision studen





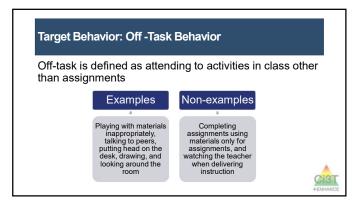
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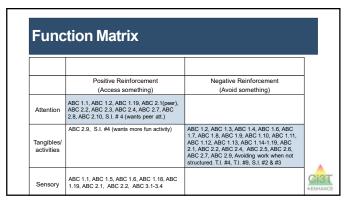
# Illustration:

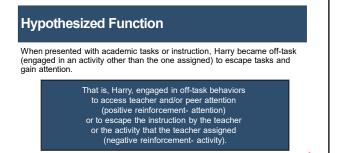
Harry (5<sup>th</sup> Grade)

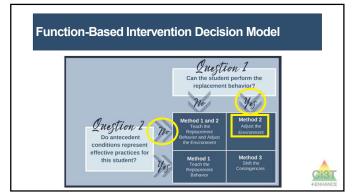
Cox, M., Griffin, M. M., Hall, R., Oakes, W. P., & Lane, K. L. (2011). Using a Functional Assessment-Based Intervention to Increase Academic Engaged Time in an Inclusive Middle School Setting. *Beyond Behavior*, 20(3).

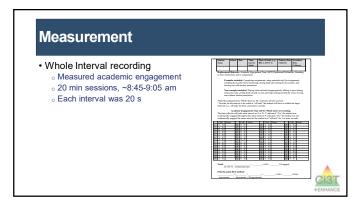


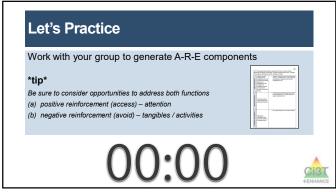
# Replacement Behavior: Academic Engagement Academic engagement is defined as anytime Harry is attending to class instructions and/or assignments Examples Completing assignments using materials only for assignments, and watching the teacher when delivering instruction Playing with materials inappropriately, talking to peers, putting head on the desk, drawing, and looking around the room







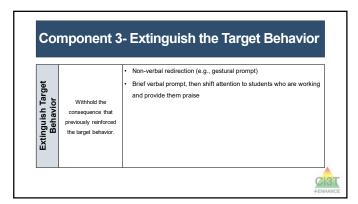


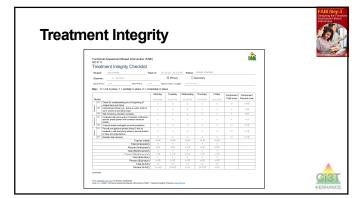


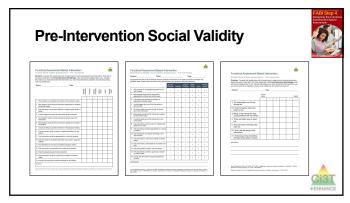
# Adjust antecedent variables so the conditions that set the occasion for the target behavior are eliminated and new conditions are established in which the replacement behavior is more likely to occur. Integrate instructional choice into independent work (e.g., complete evens or odds, select any six problems to complete, choice of math manipulative to use) Changes to physical environment (e.g., different assigned seat) Entry routine (e.g., greet teacher, go to seat, start do-now)

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# Provide appropriate reinforcement behavior. Provide appropriate reinforcement behavior. Provide appropriate reinforcement for the replacement behavior. Provide appropriate reinforcement for the replacement behavior.









# **Step 5: Test the Intervention**



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## **Step 5: Testing the Intervention**



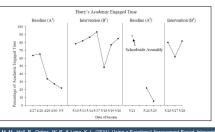


- Implement the intervention
- Monitor treatment integrity
- Collect and graph data
  Implement a single-case design to "test" how well intervention is working
  - ABAB
  - Multiple baseline
- Changing criterion
- · Assess social validity
- Fade the intervention



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# **Harry's Intervention Outcomes**







# Wrapping Up and Moving Forward



