## SELECTING AND IMPLEMENTING ACCOMMODATIONS FOR STUDENTS AT SECONDARY LEVEL

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## **Today**

- Brief overview of CARS
- · IEP review: preliminary findings
- Describe CARS accommodation guide
- Provide a case study example
- Discuss teacher and student perceptions of acceptability & feasibility
- Address questions



## Center for Adolescent Research in Schools (CARS)

- · Center grant funded 2008-2013
- Focused on secondary age students with intensive social, emotional, and behavioral problems
- Main purpose: develop and evaluate an intervention package



## **CARS Principal Investigators**

- · Lee Kern, Ph.D., Lehigh University
- · Steve Evans, Ph.D., Ohio University
- Tim Lewis, Ph.D., University of Missouri
- Howard Wills, Ph.D. & Debra Kamps, Ph.D., University of Kansas
- · Mark Weist, Ph.D., University of South Carolina

## **CARS** Overview

- Years 1-2: Develop and refine assessments & intervention package with small sample of students (n=38, 3 states)
- Year 3: Evaluate and refine intervention package with larger sample of students (n= 60, 6 states)
- Years 4-5: Evaluate efficacy of intervention with large sample of students (n=647, 5 states)
   Pandomized control trial
  - Randomized control trial



### **Overview of Intervention Components**

Intervention Focus	Core Student Challenge	Specific Strategy
Enhancing School and Teacher Capacity	Academic Skills Emotional/Behavioral Problems	Classroom Structure (Expectations & Routines)     Evidence-Based Academic Instruction (OTR, Accommodations)     Positive Teacher-Student Interactions
Building Youth Competence	Connectedness Social Skills Academic Skills Mental Health	<ul> <li>Mentoring</li> <li>Organization and Study Skills</li> <li>Interpersonal Skills</li> <li>Securing Effective Therapy</li> </ul>
Increasing Family and Community Supports	Behavior Academic Skills Social Skills Mental Health	<ul> <li>Parent Education</li> <li>Securing Effective Therapy &amp; Supports</li> </ul>

## **Participant Characteristics**

- · 647 students, grades 9-11
- Social, emotional, or behavioral problems as indicated by parent/teacher reports on a broad band rating scale and/or student self-report on measures of anxiety and depression.
- Demonstrate impairment at school as indicated by <u>any one of the</u> following:
  - Absences
- Office referrals / Behavioral infractions
   In or out of school suspensions
- Failing grades in core academic subjects
- · Cognitive ability in the average range
- Both special education and general education students
   Exclude PDD and Intellectual Disabilities



# Students with EBD and Academic Performance

- Perform, on average, at least one year below grade level (Cullinan & Sabornie, 2004; Wagner et al., 2006).
- As a group receive more failing grades than any other disability category (Wagner et al., 2006).
- Continued academic failure may contribute to escape motivated problem behaviors, disengagement from school, and increased dropout rates (Landrum, Tankersley, & Kauffman, 2003; Wagner & Cameto, 2004).



## **Need for Appropriate Accommodations**

- Approximately 85% of secondary students with EBD have at least one class in the general education setting.
- · Help students:
  - · access grade level materials
  - access instruction
  - improve classroom performance.
- Prevent students from falling farther behind academically and potentially dropping out.



### Accommodations vs. Modifications

- Changes to <u>how</u> academic content is presented or assessed
- Accommodations <u>do not change</u> what the student is expected to master
- Modifications <u>change</u> what the student is expected to master



## Accommodations Assumptions

- Allow the student to earn a valid score, not necessarily an optimal score
- Produce a differential boost
- A single accommodation is not valid or beneficial for all students
- · A student may need more than one accommodation.
- Testing accommodations and instructional accommodations should be similar



## **Problems**

#### (Fuchs & Fuchs)

- Special Education students need accommodations to succeed in general education classes
- · Accommodations not routinely provided
- When they are provided, teachers do not know how to select accommodations
  - Most accommodations randomly selected
- · Accommodations not matched to student need



#### Academic Services, Supports, and Modifications for Students with EBD (Wagner et al., 2006)

Modification	Percentage of Students		
	Elementary	Middle	High
More time to take tests	72.8	72.6	75.6
Tests read to students	45.6	40.0	26.5
Modified tests	43.7	46.3	24.2
More time to complete assignments	66.5	67.3	54.2
Modified assignments	47.9	41,4	20.8
Modified grading standards	37.3	27.3	14.5
Slower-paced instruction	51.0	46.5	19.0
Peer tutoring	17.0	10.5	8.2
Adult tutoring	15.3	8.4	7.6
Learning strategies/study skills	33.0	36.5	27.5

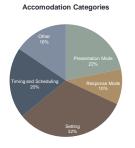
## **Initial Summary of CARS IEP Review**

#### • N = 228 students

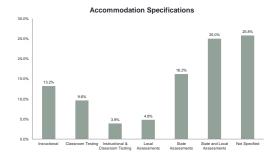
- · Categories:
  - Presentation mode- reading directions, questions or tests aloud, giving study guide
  - · Response mode- allowing use of calculator, use of computer
- Timing and Scheduling- extra time to complete tests/assignments, preferential seating in the classroom, breaks, large assignments broken down
- Setting- alternative testing location, small group instruction or testing
- Other-- various including providing prompts/cues to remain on-task, using point sheets, positive reinforcement



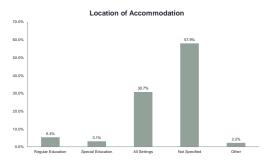
## Most Frequently Recommended



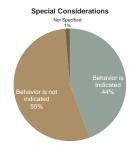
## **Recommended Use**



## Recommended Setting



## Specifications



## **Initial Conclusions**

- Most common accommodations
- Setting
- Presentation mode
- Timing and scheduling
- Other
- Response mode
- · Often determined by disability
- Students with ADHD frequently receive extended time
- · Accommodations seldom linked to student need
- Testing accommodations not matched to instructional accommodations

## **Purpose of Guide**

 Facilitate selection of one or more accommodations that are matched to the student's specific academic or behavioral needs

- Increase the match between a particular student's difficulty and an appropriate accommodation.
- · Match testing accommodations to instructional accommodations



## Implementation of Guide

- Provide teachers who rated accommodations as feasible and acceptable with model on how to choose accommodations
- Identify student problem
- · Select related accommodation
- · Have teachers implement the accommodation
- · Assess student performance
- Gather teacher feedback and treatment acceptability data post implementation



### **Accommodations Guide Model**

	Accommoda	tions Guide Works	heet
1. Gather	materials.		
	Three samples of student work Student Individualized Educatio		s or low grades
	y Broad Problem Areas. eneral indicators of concern? Cheo	k all that apply	
Acade			
	emic	Attenti	onal/ Behavioral
Actual	n 1:	-	
	Reading		Following Directions
	Math		Easily Distracted
			Easily Distracted Sustaining Attention/Effort
	Math		Easily Distracted Sustaining Attention/Effort Attention to Detail
	Math		Easily Distracted Sustaining Attention/Effort

<ol> <li>Identify accommodations match</li> </ol>	hed to student need.			
	d identified in Step 1, choose <u>at least one</u> corresponding accommodation ent. A glossary of accommodations can be found on page 6.			
Academic Concerns Roading				
Type of Problem	Suggested Accommodations			
Difficulty reading fluently	Read materials aloud			
<ul> <li>Difficulty with reading comprehe</li> </ul>	ansion  Read materials aloud Use highlighted textbook			
Reads slowly	Extended time			
	Math			
Type of Problem	Suggested Accommodations			
<ul> <li>Unable to rapidly access math fa</li> </ul>	Extended time			
<ul> <li>Difficulty manipulating numbers</li> <li>Transposes numbers</li> </ul>	Manipulative devices     Visual organizers (e.g., graph paper)     Salf-monitoring list to double check work     Extended time			
<ul> <li>Difficulty with converting word p to mathematical expressions</li> </ul>	oroblems Graphic organizer Provide math expressions or formulas			
<ul> <li>Reading difficulties that impede understanding of word problem;</li> </ul>	Minimize distracting information in word problems     Read word problems aloud s     Use graphic organizer     Extended time			
	Writing			
Type of Problem	Suggested Accommodations			
Motor skill deficits	Provide pen/pencil grip     Use word processor for drafts and final copy     Distate work into audio recording device     Use dictation program     Extended time			
<ul> <li>Difficulty with spelling</li> </ul>	Use spelling and grammar assistive devices (e.g., Spell Check) Eacher or peer proofreading Allow for re-submission of work after feedback Extended time			
<ul> <li>Difficulty organizing writing</li> </ul>	Use graphic organizers     Chunk large assignments into smaller tasks     Provide model of completed writing task			

	Behavioral Concerns Following Directions
uggest	ed Accommodations
	Read directions aloud
	Have student repeat directions back
	Simplify number of instructions on page
	Reword instructions using simpler language
	Highlight or bold font key directions
	Easily Distracted/ Sustaining Effort/Attention to Detail
uggest	ed Accommodations
	Use highlighted textbook
	Check in frequently with the student
	Assign a peer partner Use graphic organizers
	Ose graphic organizers
	Plan hands-on activities
	Frequent breaks (use private signal)
	Cue with a device (e.g., sports watch, timer) to stay on task
	Self-monitoring sheet for on-task behavior
	Self-monitoring sheet/rubric for task completion
	Limit length of sustained effort (e.g., reading, reasoning) by providing breaks or assistance
	Chunk large assignments into smaller tasks
	Change seat to reduce distractions
	Planning and Time Management
uggest	ed Accommodations
	Provide start-up assistance and frequent feedback
	Chunk large assignments into smaller tasks
	Use graphic organizers
	Use self-monitoring sheet/ rubric for task completion
	Use self-monitoring sheets for organization
	Test Anxiety
ugges	ed Accommodations
	Chunk similar test items together (e.g., chunk all multiple choice together, all true/false together)
	Divide test into smaller segments (e.g., fewer problems per page)
	Use graphic organizers
	Allow student to choose seat where he/she feels most comfortable
8	

4. Coordinate accommodations.	
List the accommodations selected from pages 2 and 3.	
Next, review the accommodations listed in the student's IEP.	List accommodations from the IEP. Circle any overlap.
Accommodations Suggested by the Guide	Accommodations on IEP

5. Meet with the student for input and preferences. Write any notes in the box below.

- Meet with the student to discuss the academic or behavioral concerns. Examine the permanent products during the discussion, if helpful.
- Describe the accommodations that were recommended by the Accommodations Guide and those currently indentified in the IEP.
- Ask the student for his/her input regarding accommedations he/she thinks may be helpful.
- Discuss specific assignments, conditions (e.g., Independent work), and frequency of the accomm Some accommodations may not be necessary for all circumstances.
- Encourage the student to share his/her thoughts about the accommodation.

	eacher preference. List i				
					m teaching activities and assignment
	r for testing. It is possible				provided for the student (see below)
. 0	Accommodation		ns under which the	Activity	Description
	Accommodation	S S	Instruction	Independent seat	
				work	Time and a half
EX.	Extended Time	2	Testing	Unit tests	
				Quizzes requiring	Time and a half
		29		written responses	
			Instruction	Group, pair, or	Teacher-created or pre-made
EX.	Graphic Organizer			Independent writing tasks	organizers (e.g., story maps, writin scaffolds)
EX.	Graphic Organizer		Testing	tasks	scarroids)
			resting		
			Instruction		
1			Testing		
			resting		
		-	Instruction		
2		•	Teating		
		-	Instruction		
а		-	Testing		
			Instruction		
4		•	Testing		
		-	Instruction		
5		-	Testing		
-		•	Instruction		
6		•	Testing		
			Instruction		
7			Testing		

accommodations for the student. If specific accommodations are already in place and effective, continue providing the accommodation as usual and test additional accommodations one at a time to determine if student outcomes are enhanced.

#### 7. Teach the accommodation(s).

- Teach the student how to access and use the accommodation using curricular materials and in authentic settings, if possible. Ensure the student understands how to use the accommodation correctly.
- Be sure the student has a clear understanding of how to request the accommodation if it is not provided. Model and role-play how to appropriately request the accommodation.
- Multiple opportunities for practice may be necessary.



	Glossary
Source: Thompson, 8.,	, Morse, A., Marpe, M., & Hall, S. (2005). Accommodations: inimial: How to select, administer, and evaluate use of survections and assessment of istudents with disabilities (2 <sup>nd</sup> ed.). Washington, D.C.; Council of Chief State School Officers.
Accommodation	Definition
Calculator	Calculation this is negligible, subsidiare i) may be appropriate to compensate for a student's disability in calculation. It is important to know the goal of instruction and assessment before making decisions about the use of calculation devices. For example, if students are learning subtraction with regrouping, using a calculator would not give a student an opportunity to show regrouping. If students are learning problem: toking still (e.g., longain stopping for terms of a batter value), then or her resemption stills.
Extended time	Extended time is a setting, pre-idetermined ensues of extrs time to complete exignments, projects, and assuments with no grading periadry. For investment tests, as transid extension may be time and one time. Double time may also be allowed. The amount of extended times in the test period. The provide time is a start of the set of the order of the set of the set. For the set of the set.
Fact table	Multiplication fact grid or other tool to help students readily access basic computation facts.
Graphic organizers	Graphic organization help students arrange information in order to organiza their work, stay focused on the context, and recognize connections and patients. Yound algorizations, short youngs, and then these are the context, and recognize connections of patients. Yound algorization, short youngs, and then the the internet at http://freedology.com/graphicorgul.
Guided notes	Handout that outlines the lecture with blanks for important ideas (e.g., key concepts, definitions, facts). Student fills in the blanks as the lecture is presented. See CARS Opportunities to Respond Tracher Hawhout.
Highlighted Textbook	Textbook with key words and information pre-highlighted by a teacher or student with good study skills. Highlighted texts can be provided to the student for use during class or at home.
Manipulative Devices	Physical objects (e.g., counters, blocks, paper chips, buttons, play money) students can arrange to better understand 1:1 correspondence, ratios, or other relationships.
Multiple or Frequent breaks	Breaks given at pre-determined intervals or after completion of assignment, tests, or activities. Samatimes a student may be allowed to take breaks when individually neaded. For example, the student becomes angry or frustrated and asks to leave the classroom, or the teacher recognizes cues in the student's behavior that signals a need for time away from the assignment or classroom.
Read materials aloud	Teacher or other qualified person reads text word-for-word orally to students. The may also include the use of boosts in tags and addition works or derivation materials. Couring texting, readers include use and the student of the student students of the students of th
Self-monitoring checklist	Student follows a sequential checklist to complete a task or follow a strategy. The checklist may also be paired with a rubric for self-evaluation of task completion against teacher expectations. RubiStar is a free tool to create rubrics, http://rubistar.4teachers.org/.
Spelling and grammar assistive devices	Pocket spell checkers or word processor spelling and grammar check programs may be an appropriate accommodation to help students communicate more effectively during writing assignments.
Visual	Graph paper, highlighters, place markers, scratch paper, and templates.



- Externalizing behaviors
- Low academic abilities
   3<sup>rd</sup> Grade academic functioning
- · General education co-taught History class
- Teacher selected interventions (based on feasibility)
   Accommodations
  - · Positive Teacher/Student Interactions



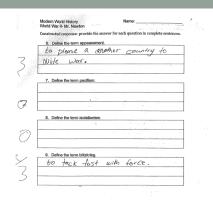
## CASE STUDY

### **Model Implementation** Step #1:

- · Collect three samples of student work demonstrating frequent errors or low grades.
- Identify accommodations provided in IEP



CARS PERCARCHIN SCHOOLS



	5
Modern World History Name World War II- Mr. Newton	
Total War WW2 Quiz- Answer the following questions in complete sentences.  1. Define the term total war	
When the worlds in war. 1	
3	
2. Identify the "Home Front" during WWII.	
3. Describe how the US mobilized American society for total war.	
6	
4. Identify the ansenal of democracy.	
G_	
5. Describe the U.S strategy of Island hopping.	
to take small lands from the 2	
Japanes, so they could put plains and 3/ books thurn, so they were close Anote 3 to Atlack or born Japans factorys, broops,	
boats there, so they were close Anote 3	
to Attack or borna Japans tactorys, broops,	
and supplies.	

### **Student IEP Accommodations**

#### Testing:

- Alternative setting
  Extended time for completion
- Read test to student (if requested)
- Assignments and Instruction:
- Lower difficulty level-shorten assignments · Provided structured time to organize materials
- · Frequent reminders of rules
- Check often for understanding/review
   Extended time for oral responses
- · Extended time for written responses
- · Maintain assignment notebook
- · Bathroom break first 5 mins. of class, unless emergency
- Use lined paper for written assignments
  Assist or provide notes and study guides
- Extended to create assignments (1 ½ weeks or as agreed upon w/ teacher) CARS



## Step #2:

- Identify general indicators of concern
  - · Writing, specifically difficulty organizing writing
    - · "Couldn't complete short answer
  - Attention to detail
    - · "Chose wrong answers on multiple choice and selected obviously wrong answers"
  - · Planning and time management
  - "Ran out of time to complete the test even when given multiple class periods'



## Step#3

- · Identify accommodations matched to student's needs
- Writing: Difficulty Organizing Writing
- · Graphic Organizers
- Attention to Detail
- Assign a Peer Partner
- · Use Graphic Organizers
- · Chunk Large Assignments into Smaller Tasks
- · Planning and Time Management
- · Chunk Large Assignments into Smaller Tasks
- Graphic Organizers



#### Step # 4: Coordinate accommodations

#### Model Accommodations

- Writing: Difficulty Organizing Writing Graphic Organ
- Attention to Detail
- Assign a Peer Partner Use Graphic Organizers Chunk Large Assignments into Smaller Tasks
- Planning and Time Management Chunk Large Assignments into Smaller Tasks
  - Graphic Organizers

**IEP** Accommodations

#### Testing-

- Alternative Setting Extended time for completion Read test to student (if requested)
- Assignments and Instructionssignments and Instruction-Lower Difficulty Level-Shorten Assignments Provided Structured Time to Organize Materials Frequent Reminders of Rules Check often for understanding/review Extended time for Oral Responses Extended time for Oral Responses

- Extended time for Written Responses
- Extended time for written Responses Maintain Assignment Notebook Bathroom Break first 5 mins. Of class, unless emergency Use lined paper for written assignments Assist or Provide Notes and Study Guides
- Extended to create assignments (1 1/2 weeks or as agreed upon w/ Teacher)

CARS PEDEARCH IN SCHOOLS

### Step #5:

- · Meet with the student for input and preferences
  - · Student agreed with teachers concerns.
- · Student agreed to all suggested accommodations.
- · Student requested:
- A different seat with less distractions during independent work.
- · Materials if he forgot to bring them.



#### Step #6:

- · List accommodations to be implemented and evaluated.
- Prioritize
- · Determine instruction or testing
- Define and describe conditions:
  - 1) Use graphic organizers (I/T) All in class work, Teacher-created or pre-made
  - Change seat to reduce distractions (I/T) Student and teacher will meet to discuss alternative seat, can be changed if student does demonstrate classroom expectations
  - 1) Materials be given to student if forgotten (e.g. pencil) (I/T) student must request material at the start of the class and give teacher comaterial at the end of the class period. ral for the return of
- 2) Assign a peer partner (I) All in-class work with a teacher chosen partner
- 3) Chunk large assignments into smaller tasks (I) All in class assignments ated checklist o mpleted tasks.



## Step #7:

- Teach the accommodations
  - Assign a peer partner
  - What are the appropriate behaviors of working with a peer? What noise level can you work with a peer? What does helping vs. doing look like?

  - Use graphic organizers
- How do I use graphic organizers (5 paragraph outline, flow chart, venn diagram, checklist, etc.)?
   Chunk large assignments into smaller tasks
   How do I use a checklist?

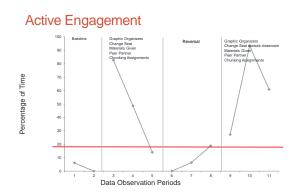
- How do I manage my time?
  Change seat to reduce distractions

  - How do I transition? When is it appropriate to move?
- · Materials given to student if forgotten (e.g. pencil) How do I know what materials I need?
  - What is appropriate collateral?



## Step #8:

- · Examine at least three samples of student work/tests to determine if there is a change in the performance trend
  - Class Grade Increased from a 24% to a 77%
  - Highest class grade he had received since beginning high school!



# ACCEPTABILITY & FEASIBILITY RATINGS

### Acceptability & Feasibility: Pre-implementation

Teachers asked to rate interventions indicated by classroom assessment process

% Indicated	% Feasible & Acceptable	Top Reason Why Not Implemented
25.10	51.79	Other



- · School Intervention Rating Form (SIRF)
  - Adapted from the Treatment Acceptability Rating Form-Revised (Reimers & Wacker, 1988)
    - Items assess an intervention's perceived costs, effectiveness, disruptiveness, and acceptability
    - · Rated on a 7-point Likert scale (range 1-7)
    - 2 versions:
    - Teacher: 18 acceptability items
      Student : 6 acceptability items



## Acceptability & Feasibility: Postimplementation

**Teacher Relative Ratings** 

Overall Acceptability	Items with Highest Mean Acceptability	Items with Lowest Mean Acceptability
Mean (Range)	Mean	Mean
5.8 (5.3-6.4)	Cost (6.9) Willingness to Implement (6.7) Not Disruptive (6.7)	Effectiveness (3.8) Likelihood of permanent improvement (3.7)



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## Acceptability & Feasibility: Postimplementation

Student Relative Ratings

Overall Acceptability	Items with Highest Mean Acceptability	Items with Lowest Mean Acceptability
Mean (Range)	Mean	Mean
4.4 (2.0-7)	Easy (5.3) Comfortable (5.3) Understanding (4.4)	Help Improve (4.2) Like Intervention (3.2)



## **Implications for Research and Practice**

- Implementation at secondary level difficult
- Many accommodations indicated, but teachers did not always report them as feasible and acceptable
- Overall, teachers and students rated accommodations as acceptable post-implementation
- Accommodations were rated at-least somewhat effective 1 month post-implementation



## Thank You!

Center for Adolescent Research in the Schools (CARS)

www.ies-cars.org