Behavior Support for Intensive Intervention

Module 6 Defining, Measuring, and Monitoring Behavior Workbook

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Module 6 Checklist

The purpose of this Activity Workbook is to help organize content for this Module. You will do some activities on your own to help you engage with and think about the content. You will *not* be required to submit your responses for those activities. There are other activities, however, that you will submit online and apply in your classroom. The activities that you must submit before completing this Module are listed in the "Online" column below.

Section	Assignment	To Be Completed In Activity Workbook	To Be Completed Online	Classroom Application
Intro	Video		☐ Watch Module 6 Introduction Video Presentation	
	Video		☐ Watch Module 6 Part 1 Video Presentation	
Part 1	Guided Notes	☐ Complete Guided Notes		
Pa	6.1	☐ Stop & Jot: Selecting Target Behaviors		
	Video		☐ Watch Module 6 Part 2 Video Presentation	
Part 2	Guided Notes	☐ Complete Guided Notes		
Pa	6.2	Stop & Jot: Write an Operational Definition		
	Video		☐ Watch Module 6 Part 3 Video Presentation	
Part 3	Guided Notes	☐ Complete Guided Notes		
Ä	6.3		☐ Discussion Post: Refine Your Definition	
	Video		☐ Watch Module 6 Part 4 Video Presentation	
4	Guided Notes	☐ Complete Guided Notes		
Part 4	6.4	 □ Workbook Quiz: Selecting an Interval Recording System 		
	6.5	☐ Stop & Jot: Select an Appropriate Measurement System		
	Video		☐ Watch Module 6 Part 5 Video Presentation	
Part 5	Guided Notes	☐ Complete Guided Notes		
Par	6.6	Pause & Process: Create a Visual Summary		

	Video	☐ Watch Module 6 Next Steps Video Presentation	
Steps	Module Quiz	☐ Take Module 6 Quiz	
Next St	Classroom Application		Select, define, measure and graph target behavior Review your report using the rubric with a peer or your coach

Module 6 Timeline

Week 1	Week 2	Week 3
Start Module	Continue Module	Complete Module & Classroom Application Activity



Module 6 Guided Notes & Activities

Objectives

By the end of Module 3 you should be able to:

- Part 1:
 - Select an appropriate target behavior
- Part 2:
 - Write an operational definition for a target behavior
- Part 3:
 - o Identify relevant dimensions of behavior
- Part 4:
 - o Choose a measurement system based on relevant dimensions of behavior
- Part 5:
 - Use graphing conventions to create meaningful visual displays of data

Part 1

Why Measure Behavior?

Purpose	Question
Screening	Who needs support?
"Diagnostic": identify specific strengths and needs to guide your instruction & support	On which behaviors/skills? What will you do?
Progress Monitor to improve your instruction and support • Fidelity of implementation (your behavior) • Student outcomes (student behavior)	How will you adjust?
Outcome	Did it work?

Key Steps in Measuring Behavior

- 1. Select target behavior(s).
- 2. Define target behavior(s).
- 3. Identify relevant dimension(s) of behavior(s).
- 4. Determine best procedure(s) for measuring behavior(s) given definition, dimensions, and context.
- 5. Summarize data visually to guide decision making.

1. Selecting a Target Behavior

Social	Significance
\triangleright	Does it increase to
	from natural environment?
	from others?
	other (less restrictive) where other
	behaviors can be learned/performed?
>	Is it important as a
	for another functional skills?
	behavioral or pivotal behavior?
>	Is it age appropriate?
	If a behavior is targeted for reduction, is there an?
	Do you have the "right" behavior (not a related or verbal one)?
	20 your marror and marror (more a route of a
Priorit	izing Behavior
1.	"Does this behavior pose any to client or others?"
	"How often" does (or will) the behavior occur?
	"How <i>long-standing</i> is the problem or skill-deficit?"
	"Will changing this behavior produce higher rates of for the person?"
	"What will be the <i>relative importance</i> of this target behavior to future skill development and
0.	independent functioning?"
6.	"Will changing this behavior or unwanted attention from others?
7.	"Will this new behavior of significant others?"
	"How likely is success in changing this target behavior?"
	"How much will it to change this behavior?"



Activity 6.1 - Stop & Jot Selecting an Appropriate Target Behavior Workbook

Identify a behavior concern for a student or staff you have worked with.		
Which behavior(s) are higher priority for staff or students? Why?		

Part 2

2. Defining a Target Behavior

Develop an Operational Definition

What is it?

- _____ description of target behavior.
- Should include _____/non-examples.Stated in terms of _____ of behavior.

Why is it important?

• We need an objective and agreed-upon definition of behavior to aid with observation, intervention, and discussion

Observable and Measurable?

Target	Anna is not prepared		Target	Anna does not nave
Behavior	for class.		Behavior	her book or pencil at
Replacement	Anna will be prepared			the start of class.
Behavior	for class		Replacement	Anna will have her
		•	Behavior	book and pencil at
				the start of class.



Activity 6.2 – Stop & Jot Write an Operational Definition Workbook

- Return to the behaviors you identified in Activity 3.1.
- Develop an operational definition for your target behavior including examples and nonexamples.

Target Behavior:	_
Operational Definition:	
Examples of Target Behavior	Non-Examples of Target Behavior
Part 3	
3. Identify Relevant Dimensions of Behavior	
Why do we need dimensions?	
 All behavior occurs within a 	
 It may not be the actual form of the behavior t rate of which the behavior occurs in a given co 	hat is inappropriate, but the duration, intensity, or
-	e time. It is a problem if you are off task 80% of the
time.	
7 Dimensions of Behavior	

		Definition	Measured by:	Example:
1.	Frequency	The number of times an individual engages in a behavior within an observation period.	Counting incidents of behavior ().	
2.	Rate	Frequency/	Counting incidents of behavior (

3. Duration	How long an individual in a behavior.	Timing how long an individual engages in: ➤ each behavior (how long is each incident) ➤ one behavior throughout observation (cumulative)
4. Latency	The amount of time between the instruction (SD) and a	Timing interval between S ^D (e.g., instruction) and when student begins to perform.
5. Topography	The "" of a behavior or what it looks like.	Observing and recording exactly how the individual performs the target behavior.
6. Force	The of a behavior.	Observation (subjective) or apparatus designed to measure intensity.
7. Locus	the behavior occurs (e.g., setting, target location on "victim's" body, etc.).	Observing and recording.



Activity 6.3 – Discussion Board Post Refine Your Definition Online

Before you complete this module, please complete a discussion board post that answers the following questions. Once you've posted, please respond to at least two of your classmates' posts.

- 1. Return to the operational definition you developed in Activity 3.2.
- 2. Identify (one or more) key dimensions that are particularly relevant for your setting.
- 3. Refine your operational definition using your identified dimensions.

Key Dimension(s) of my target behavior:			
Refine your operational definition using your identified dimensions.			

Part 4

4. Determine the Best Procedure for Measuring Behavior

Decide who is going to take data.

- Will they be just observing?
- Or will they be teachers?

Decide how data will be collected.

- Observation?
- Permanent product?

Weigh practicality vs. precision.

Systems for Measureme	ent				
Anecdotal Reports	What is it? description of virtually everything that is going on within a setting for a particular learner.				
	 When would we use it? To measure topography, locus, and force(?) Generating				
Permanent Product	What is it? Permanent and tangible effects or outcomes of a behavior. When would we use it?				
	 Frequency/Rate Locus Topography Force 				
Event Based Systems (Tally)	What is it? of the number of times a student engages in a behavior in an observation period.				
	When would we use it? To measure of low-frequency, discrete behaviors (e.g. # of curse words). Can convert <i>rate</i> by dividing # of units of time in observation period.				
Time Based Estimates	What are they? Ways to the number of times a behavior occurs.				
	 When would we use each? Used for				
Interval Recording	Whole Interval Recording: Record only if the behavior occurred the entire interval (e.g., off-task).				
	Partial Interval Recording: Record if the behavior occurred in the interval (e.g., talking to peer).				
	Momentary Time Sampling: • Record whether or not a behavior occurs at the of an interval.				

Usually intervals are comprised of minutes, rather than seconds.

interval throughout 20-minute observation period.

For example, record whether student is out of seat at the end of each 2-minute



Activity 6.4 – Quiz Selecting an Interval Recording System Workbook

Determine which of the following interval recording systems you would use for each of the following behaviors: partial interval recording, whole interval recording or momentary time sampling.

If	Then choose	Which will yield
Continuous desired behavior, such as on-task behavior		Percentage of intervals with target behavior
The behavior occurs at a very high frequency and very rapidly (e.g., talking, head-banging, hand-flapping)		Percentage of intervals with target behavior
It is difficult to continuously monitor the student or the observer needs a low-effort data collection method		Percentage of observations with target behavior

Time Based: Duration & Latency

How do w	ah ai	it?
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•	Either start a stop watch after the SD and stop it when the behavior starts	().	
		\/	-

•	Or, we would s	start the stop	watch wher	n the behavio	or starts and	l stop it as so	on as it sto	ps
	().						



Activity 6.5 – Stop & Jot Select an Appropriate Measurement System Workbook

- Return to the operational definition you refined in Activity 3.3.
- Select the measurement system that best measures the dimension(s) of interest.

•	Develop your data collection tool.					

Anecdotal Reports
Permanent Product
Event Based Systems (Tally)
Time Based Estimates
Interval Recording
Partial
Whole
Momentary Time Sampling
Time Based: Duration/Latency

Part 5

5. Summarize Data Visually to Guide Decision Making

Purpose of Visual Displays

- 1. "Provides...immediate access to on-going visual record"
- 2. "Explore interesting variations in behavior as they occur"
- 3. Aid in interpretation of data
- 4. "Visual analysis is a conservative method for determining the significance of behavior change"
- 5. "Enable and encourage independent judgments and interpretations"
- 6. "Effective sources of feedback to the people whose behavior they represent"

Choose an Appropriate Graph

•	Use a	graph to sumn	narize and s	show trends	across time.
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•	Use (or	graphs to summarize	/compare da	ita in categorie	s (e.g. a	ntecedents v	/5
	consequences,	different ty	pes of behaviors).					

Data System	Summary Score(s)
Anecdotal Report	Narrative description
Permanent Product	# of events
	#/time (rate)
	% of total
Tally/Count	# of events
	#/time (rate)
	# or % events per category
Duration Recording	Total time (cumulative)
	% of time
	Average time per event (beg to end)
Latency Recording	Total time (cumulative)
	% of opportunities on time
	Average time (between S ^D and
	behavior)
Partial Interval Recording	% of intervals
Whole Interval Recording	% of intervals
Momentary Time Sampling	% of intervals (or opportunities)

Line Graphs

•	Line	graphs	are g	reat v	ways t	o rer	oresent	data	across	time
---	------	--------	-------	--------	--------	-------	---------	------	--------	------

•	They allow you to detect	in your data
•	THE VALION VOU TO UCTOCL	iii vodi data

	O	- ما الما	^	
•	Gran	nıno	Conve	ntinns
•	arab		$\sigma \sigma $	HUUH

0	Graphs have units of time going across horizontal _	_ axis and <u>units of behavior</u> going up the
	vertical axis	

Э	Different data	(geometric shapes) and data	(lines) are used to
	represent different types	of information.	

- In line graphs, the following are used:
 - Continuity Breaks are used if data collection is _____ continuous (e.g., if student is sick for a week during observations).
 - o Phase lines are used to separate "_____ on graph"
 - Data may be taken before an intervention (baseline phase).
 - Data may be taken during an intervention (intervention phase)

Pie Graphs

• Useful for representing **percentages** of things (individuals, events, etc.) that fall into certain

Bar Graphs

- They are *also* useful for representing **percentages** of things (individuals, events, etc.) that fall into certain categories
- And, they can be used to represent data across time when data paths would be too confusing to represent in a line graph.



Activity 6.6 – Stop & Jot Create a Visual Summary Workbook

Poturn to the macourement evetem you colocted in Activity 2 5		
Return to the measurement system you selected in Activity 3.5	Line Graph	
Identify an appropriate type of graph and electable graph of hypothetical data	Bar Graph	
Identify an appropriate type of graph and sketch a graph of hypothetical data.	Pie Chart	
Which graphing features should you include to maximize the interpretation of you	r data?	