



WHY TAKE DATA?

- TA?
- Pinpoint the function of the behaviour.
- Pinpoint missing skills.
- Determine intervention progress and make changes as needed.
- Improve our own strategies and responses.
- Ensure consistency among team members.
- Track and celebrate student growth.
- Objective and factual reporting for team/caregiver meetings.



Ultimately, data allows us to support children in ways we may not have otherwise.





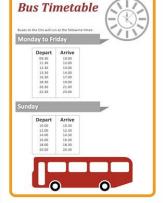
DATA IS ALL AROUND US







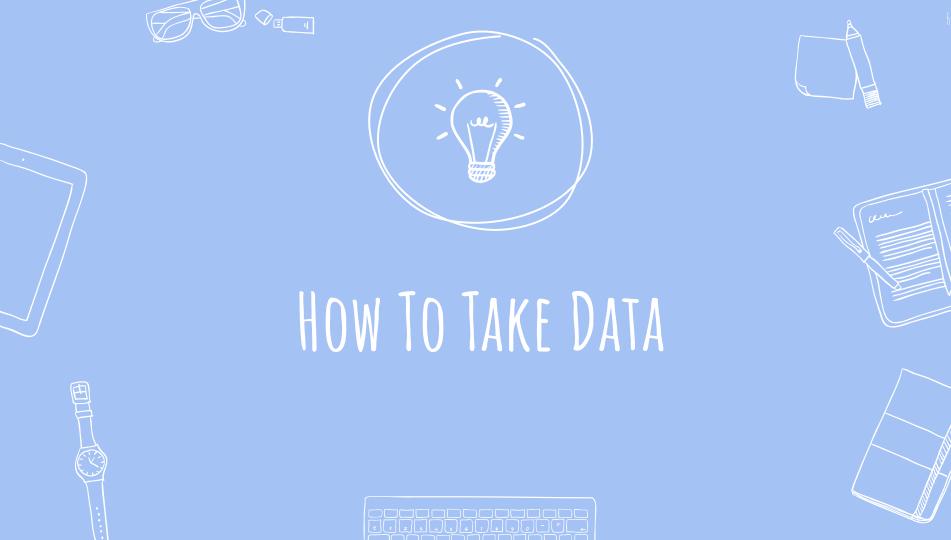














WHERE TO START: ABC DATA



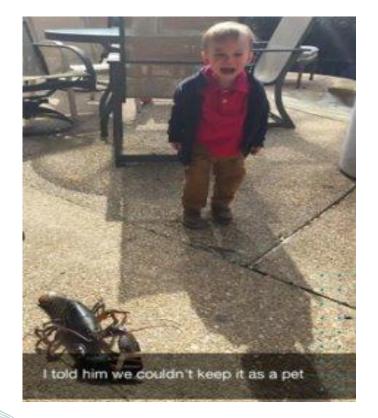
Date/Time	Setting	Antecedent	Behaviour	Consequence	Effect
When did the interfering behaviour occur?	Where did the interfering behaviour occur?	What happened immediately prior (i.e., triggered) to the interfering behaviour?	Describe the interfering behaviour.	What did you do or what happened after the interfering behaviour occurred?	What effect did the consequence have on the interfering behaviour?

OBjective: When you <u>OB</u>serve and record what is visible and measurable. Think: Could I have the caregiver read this information?



WHERE TO START: ABC DATA









NEXT STEPS: OPERATIONAL DEFINITION

Operational Definition: the visible, measurable, objective description of a behaviour's features including all its expressions, how severe it gets, and when it's started and stopped.

Operational Definition	Topography (What it Looks and Sounds Like)	Severity Scale
Fleeing: Has occurred when the student leaves the room without consent or when a student attempts to hide in or out of the room.	Running Leaving desk Hiding in locker Hiding in bathroom Leaving building/room	 1 - Getting out of desk and wandering around classroom 2 - Hiding in classroom 3 - Leaving the classroom without permission 4 - Leaving the building without permission

VEXT STEPS: CATEGORIZING BEHAN

Behaviour can be categorized in three ways:

- **Episodic** a prolonged event (ie. meltdown);
- High Rate or Discrete behaviours occurring often (ie. blurting) or briefly (ie. spitting) in the moment;
- By Opportunity behaviours occurring after a request (ie. "grab your notebook") or an occasion (ie. attending school).







TEPS: SELECT AN APPROPRIATE DATA FOR

→ If the behaviour is **episodic**, stick with the **ABC form** to determine **frequency**, **severity**, and **duration**!

Setting	Antecedent	Behaviour	Consequence	Effect
Where did the interfering behaviour occur?	What happened immediately prior (i.e., triggered) to the interfering behaviour?	Describe the interfering behaviour.	What did you do or what happened after the interfering behaviour occurred?	What effect did the consequence have on the interfering behaviour?
	Where did the interfering behaviour	Where did the interfering immediately behaviour prior (i.e., occur? triggered) to the interfering	Where did the interfering immediately behaviour prior (i.e., triggered) to the interfering	Where did the interfering behaviour behaviour where did the immediately behaviour. What did you do interfering behaviour.



SEPS: SELECT AN APPROPRIATE DATA FOR

→ If the behaviour is **high rate or discrete**, use an **interval/tally data form** to determine **frequency** and **latency!**

interval #	Time (60 seconds)	+ (yes) OR x (no)	Comments
1			
2.		10	
3.			
4.			
5.			
6.	100		
7.			
8.			
9.			
10.			
ormula for		mber of + intervals	



DEPS: SELECT AN APPROPRIATE DATA FORMATY

→ If the behaviour is **by opportunity**, use a **by opportunity data form** to determine **frequency**, **severity**, and

latency/ratio.

Time of Request	ту	Type of Request				n-task ff-task	Off-Task Severity				
		÷	84	0	7.4		4	1	у.		I
	*	7.	PA	0			. 3	3	1		T
	A	T	25	0			1	1	1		t
	A.	T	PA	0			1	1	1		Ī
	A.	7.	PA.	0			1	3	1.		t
	A.	1	FA.	0			. 2	1	1		t
		1	FA.	0	100		.5	2	1:		t
		7	PA	0			1	3	i		t
	A	T	PA	0			1	1	3		t
	A	Ť	PA	0	-	W	3	2	1		t
	A	7	86	0	100		-1	1	1		t
		7.	FA.	0			3	2	1:		t
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	4	7	PA	0			1.	2	3		t
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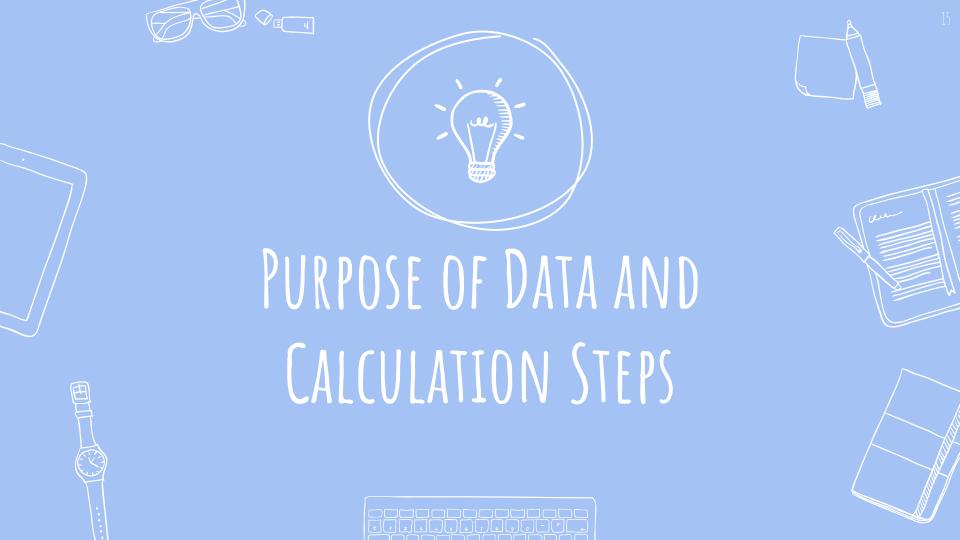
INAL STEPS: TAKE AND ANALYZE THE DATA

Remember - the behaviour must be operationally defined!

- Who will take the data?
- What data form/method will be used?
- Where will the data be taken (ie. which settings)?
- When will the data be taken (ie. time frame and for how many days)?
- Why are we using this form/method (ie. are we looking for frequency, severity, duration, and/or latency data)?

Next Steps: analyze the data to determine the function of the behaviour and next steps for intervention.





PURPOSE OF DATA



Taking data on these behaviours will allow us to determine:

- **1. Frequency** how often the behaviour occurs.
- **2. Severity** the intensity of the behaviour.
- 3. **Duration** how long the behaviour lasts.
- **4. Latency** the time between the request/event and the behaviour.











FREQUENCY DATA





Frequency – how often the behaviour occur; requires distinct start/end time so we can tally the behaviour.

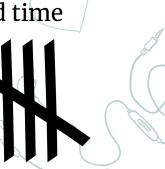
Applicable for: episodic, high rate/discrete, and by opportunity behaviours.



- 1. Set time frame (ie. 15 minutes, 1 hour, etc.).
- 2. Tally each behaviour that occurs within the predetermined time frame.
- 3. Divide the number of tallies (behaviours) by the total amount of time to get the frequency.







REQUENCY DATA EXAMPLE 1 - ABC FO

Brad's ABC Form *Last Opdated: May 3, 2021	
Staff:	If applicable, filling in for student who was targeted:

Definition: Physical Aggression- has occurred when the student makes forceful, physical contact with another person.

Verbal Aggression- has occurred when the student uses abusive/threatening language or profanity towards another person with a volume louder than conversational norm, includes giving the middle finger.

Property Destruction- behaviour involves actions that render objects in need of repair or replacement or has the potential to damage objects, includes throwing objects not meant to be thrown.

Date/Time	Setting	Antecedent	Behavior	Consequence	Effect
When did the aggression	Where did the aggression	What happened	Describe the aggression?	What did you do or what	What effect did the
occur?	occur?	immediately prior (i.e.,		happened after the	consequence have on
		triggered) to the		aggression occurred?	Brad?
	/2	aggression?			
Please Record	Please Check	Please Check Any That Apply	Please Check Any That Apply-	Please Check Any That Apply	Please Check Any That Apply
		-active activity	Mark an "A" if it was an attempt.		
Date:	-classroom	-computer	Physical Aggression:	-moved away from Brad	-continued with same
Period 1	-hallway	-desk work	-grabbing person	-said is not okay, you	task -redirection to task
Time:	-sensory	-transitioning -staff gave a verbal	-hitting person	need a break/walk -said is not okay, and	effective
Time:	-library -gym	request/prompt one time	-kicking person	redirected to task	-redirection to task
Period 2	-outdoors	-staff gave a verbal	-pushing person -throwing an object at a	-switched staff	ineffective
Time:	-city bus	request/prompt 2+ times	person	-staff other verbal	-went with switched staff
	-pool	-staff said no	-other:	*what did you say?	-stayed with targeted staff
Period 3	-other:	-staff said break is over			-went to sensory
Time:		-staff said go to class	Verbal Aggression: -abusive/threatening		*for how long?
		-staff said put phone away	language	-other:	*what did he do in sensory?_
Lunch		-staff said no that's private	-profanity		
Time:		-other:	-giving the middle finger		-went for a walk
l			-other:		*for how long?
Period 4			Property Destruction:	1	What did no say?
Time:		Brad's Precursors:	-hitting/kicking objects		vna did le say?
Period 5		-appears frustrated	-throwing objects		
Time:		-not following directions	-other:		ill s ein precursor
		-making a fist	Please Check		· v or
1		-growling	Severity:		- T
1		-raising voice	-Person not injured		- he
1	l	-other:	-Person physically injured		
			*Definition of physically injured: caused pain and/or left a mark.		
			If physically injured record injury:		
					T al me scalated:
				<u> </u>	

REQUENCY DATA EXAMPLE 2 - TALLY FORM

Event/ Frequency Recording Sheet

(Used to record all instances of a specific, discrete behavior during a time period)

Instructions: Tally each occurrence of the behaviour in the boxes.

Student: KG Date: Jan 09/27ime (Start): 8am Time (End): 9an

Behaviour: blurting (level I rondom comments, level 2 yell, level 3 swear)

Context/Activity (e.g., math class or free play): Math

☑ Baseline ☐ Intervention

HH HH HH III

Total: 19 Rate; 19 per ho





Severity - the intensity of the behaviour.

Applicable for: episodic and by opportunity behaviours.

Steps:

- 1. Set time frame (ie. 15 minutes, 1 hour, etc.).
- 2. Circle 1, 2, or 3 severity for each behaviour that occurs (as per severity scale).
- 3. Divide the number of level 1 behaviours by the total amount of occurrences to get the severity.
- 4. Repeat step 3 for level 2 and then level 3 behaviours.







Time	Blurting Tally and Severity (1, 2, or 3)	Type of Request			+ = on-task o = off-task		Off-Task Severity			
Ipm	1 "atam"	(4)	т	PA	0	0	0	1	2	3
1:11 pm	111 "proton"	(A)	I	PA.	0	0	0	1	2	3
Virbam	2 "impose"	(4)	Ť	PA.	0	+	0	1	2	3
1:15em		(3)	т	PA.	0	0	a	1	2	3
1:18pm	1-"am"	(T	РА	0	0	0	1	2	3
1:240	3 "f ward"	A	0	РД,	0	+	0	1	0	3
1:2790		(1)	T.	PA	0	0	0	1	2	3
1:35pm		(1)	T	PA	0	0	0	1	2	3
1:36pm	111- charge"		Ť	PA	0	0	0	1	2	3
1:424m		(A)	J.	PA	0	0	0	17	2	3
1:48pm	2-480500	(A)	T	PA	0	+	0	1	3	3
1:53pm	J- " butu.	(1)	T	PA	0	(0	1	2	3
2pm		(Ť	PA	0	(D)	0	1	2	3

HENEL 3.

Operational Definition: Interruptions - vertally speaking over someone else who is talking; random comments (level 1), yelling (level 2), and swearing (level 3) during times of quiet reflection or work

Task Avoidance - not completing class work or engaging in class discussions; sitting there without task engagement (level 1), saying "no" and sitting there without task engagement (level 2), and yelling/leaving room (level 3).

Request Key

Severity Scale

Academic

Transition

Physical Activity

Level 2

Task Avoidance - random comments/sitting there w/o engagement Interruptions - blurting on-task

Task Avoidance - yelling or saying "no" and sitting there w/o task engagement.

Interruptions - blurting off-task/random

Task Avoidance - yelling/leaving the room. Interruptions - swearing/inappropriate comments







SEVERITY DATA (ADVANCE

Severity - the intensity of the behaviour.

Applicable for: episodic and by opportunity behaviours.

Steps:

- 1. Level 1 frequency of behaviours at level 1 multiplied by 1.
- 2. Level 2 frequency of behaviours at level 2 multiplied by 2.
- 3. Level 3 frequency of behaviours at level 3 multiplied by 3.
- 4. Add up frequency of behaviours for all levels 1-3.
- 5. Add up multiplication answers from steps 1-3.
- 6. Divide number from step 5 (multiplication answer) by step 4 (frequency of behaviours) to determine average severity level.

SEVERITY DATA (ADVANCED) EXAMP

Example 1 (Blurting):

Level 1 - $9 \times 1 = 9$

Level 2 - 2x2 = 4

Level 3 - 1x3 = 3

Frequency of behaviours for all levels 1-3 - 9+2+1 = 12

Multiplication answers -9+4+3=16

16 divided by 12 = **1.33 average severity level.**

Example 2 (Off-Task):

Level 1 - 1x1 = 1

Level 2 - 2x2 = 4

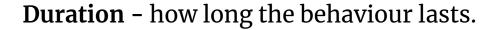
Level 3 - 0x3 = 0

Frequency of behaviours for all levels 1-3-1+2+0=3

Multiplication answers -1+4+0=5 5 divided by 3 = 1.67 average severity level.



DURATION DATA



Applicable for: episodic behaviours.

Steps:

- 1. Once the behaviour starts, note the start time.
- 2. Once the behaviour stops, note the end time.
- 3. Calculate the total time from the start/stop times.









DURATION DATA EXAMPLE

Student KG Week: From Mar 1-5th, 2022

Observer JM

Behavior Meltdown (lays on floor 4 cress, prints fists)

Monday Date: 15/	Tuesday Date: 7-0	Wednesday Date: 3 € 8	Thursday Date: 4+th	Friday Date: 51h		
Start Duration	- Parit	Start: Duration:	Start Duration:	Start Duration		
Start Duration	Start Duration:	Start: Duration:	Start Durators	Start Duration		
Start Duration:	Start Duration:	Start: Duration: End: N Pt	Start Duration	Start Durator		
Start Duration	No. of the Asset Control of th		Start (1.30 Duration- End (1:53 23mm)	Start Ouration		
Stat 1 & Durator. End 036 Zimin	Start Curation	Start Duration:	Start Duration	Start Duration		



Start End: N	Durator	Start End: N	Duration		End: 7:14		Start 1: 03 End: 2:10	
Start 2:10 End 2:02	Durations, 52 thin	Start End N	Duration.	Control of the Contro	Start. End: N\P	Duration:	Start End N	Duration:
Start End: N\	Duration:	Start. End: N\	Duration.	Start Duration:	Start End /	Duration:	Start: End: N	Duration

Avg Duration: 21 x 52 +15 x 65 x 23 x 65 x 67 x 37 7 c psyde 5 4 43 min. and.

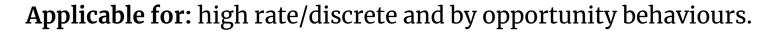
Average Duration: Sum the total durations from each episode and divide by the total number of episodes.

% of Observation
With Behavior: 303 + 1800 km's x 100 = 16%
% of Observation with Behavior (# of Minutes of Behavior divided by total # of minutes of observation, then multiply by 100)





Latency - the time between the request/event and the behaviour.



Steps:

- 1. Determine the appropriate amount of wait time for follow through (ie. 2 minutes, 5 minutes, etc.).
- 2. Record the time of the event or request.
- 3. Record the time that the behaviour occurred OR make an X if behaviour did not occur within the predetermined time frame.
- 4. Determine the time in between the requests and the behaviour occurrence (add all and divide by total number to get the average).
- 5. Determine the percentage of non-follow throughs by dividing the Xs by the total number of requests and repeat the process for the percentage of follow throughs.





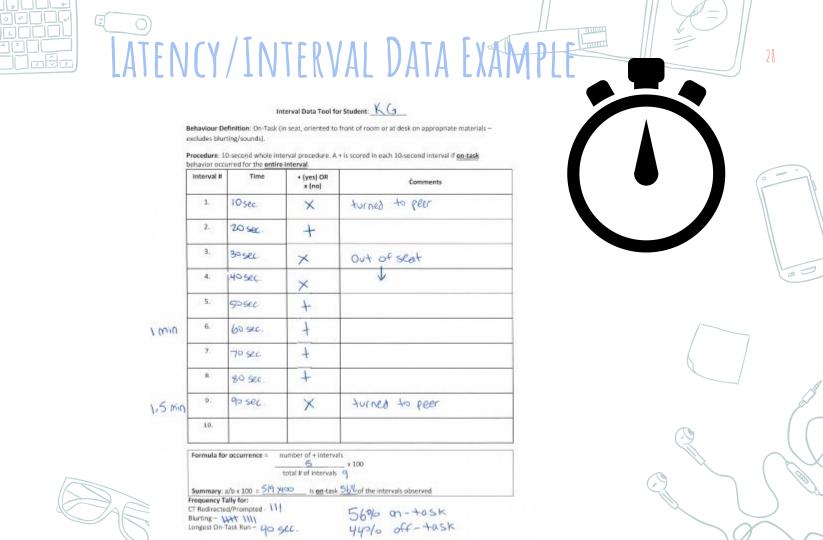
Latency - the time between the request/event and the behaviour.

Applicable for: high rate/discrete and by opportunity behaviours.

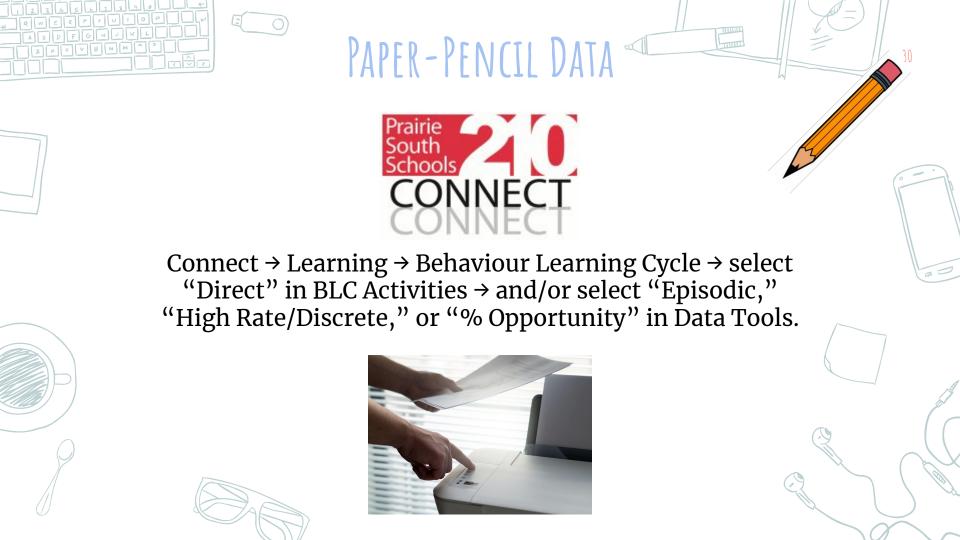
Steps:

- 1. You can take interval date by setting a predetermined time interval. It is crucial to make intervals less than a minute each as shorter intervals allow for the most accurate data.
- **2. Whole Interval:** Mark a checkmark if the behaviour occurs within that entire time interval OR an X if it does not.
- Partial Interval: Mark a checkmark if the behaviour occurs during any point within the time interval OR an X if it does not.
- 4. Divide the number of checks by the amount of intervals to get the percentage of follow throughs. Repeat the process for the X's to determine the percentage of non-follow throughs.







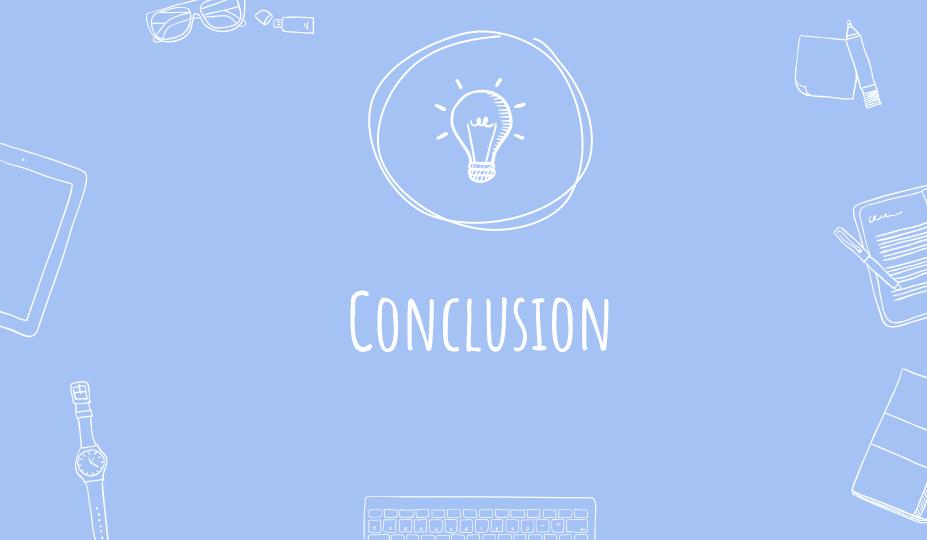


CLASS DOJO DATA

- 1. Go to Class Dojo and either sign up or log in.
- 2. Create a 'New Class,' adding a title and grade.
- 3. You can invite other teachers via email or by name if they have a Class Dojo account.
- 4. Add students by initials (no further identifying information).
- 5. You can send caregiver invites (Note: I skip this step when using Class Dojo for data purposes).
- 6. Go to 'Options → Edit Class' (top right corner) to edit the behaviours to be tracked. Note: This program is great for frequency data. Ensure each +1 or wanted behaviour has a corresponding −1 or unwanted behaviour and track both! You can name the behaviour, set points for it, and select a visual. Behaviours can then be imported into other classrooms that you may have.
- 7. Add data for the students.
 - View the reports from 'Options → View Reports.' Data can be transported to an Excel spreadsheet but I liked to select 'CTRL + PRT SC' on my keyboard to edit the visual in a Word Document or in Paint to share with caregivers.

GOOGLE FORMS DATA

- 1. Go to Google Drive and select '+ NEW → Google Form.'
- 2. Add a title with the student's initials (but no further identifying information).
- 3. Enter the date as Question 1 (select 'DATE' from question options on the top right).
- 4. Question 2 can be the name of the person taking the data.
- 5. Question 3 can include the start/end time (select 'TIME' from question options on the top right).
- 6. Determine the best format for the rest of the questions (ie. short answer, multiple choice, etc.).
- 7. Write the questions/options and select if the questions will be required (bottom left).
- 8. When finished, press 'SEND' on the top right bar. Forms can be sent to Prairie South emails.
- 9. Go back and check the data (can be exported to an Excel spreadsheet).





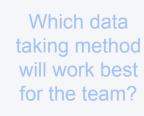




Has the behaviour been operationalized (defined with severity levels and features)?

Is the behaviour episodic, high rate/discrete, or by opportunity?

What is your purpose/goal (ie. frequency, duration, severity, or latency data)?



When will team members take data (ie. setting, time frame, and for how long)?

Analyze: What is the data telling you about the function of the behaviour and next steps?







CREDITS

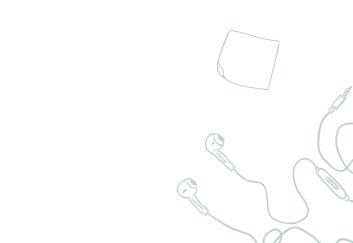


★ For more information, please see the Diversity Series and the Behaviour Learning Cycle on Connect.









THANKS! Any questions?

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