Collecting and Analyzing Tier 3 Data: Tools, Tips, and Tricks

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Objectives

- Better understand where data collection fits within Tier 3
- Practice using a variety of data collection forms
- Better understand the importance of data visualization
- Practice making graphs based on the data collection forms
- Practice using computer-based tools for data visualization

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Expectations

- Respect
- Participate
- Share

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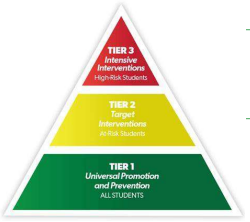
Purpose of Tier 3 Supports



- Intensive, individualized support for students with the highest level of need
- Data is critical: It drives identification, planning, intervention, and progress monitoring
- CYB

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Why Data Collection Is Foundational at Tier 3

- Determines **WHO** needs Tier 3
- Helps define WHAT the problem is
- Informs HOW to support (matched intervention)
- Tracks WHETHER it's working (progress monitoring)

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Data Flow Within Tier 3

- Referral/Identification-Review ODRs, Tier 2 outcomes, teacher concerns
- Functional Behavior Assessment (FBA)-Collect ABC data, interviews, observations
- Intervention Planning-Use data to create BIP or support plan
- Progress Monitoring-Daily behavior tracking, goal updates
- Decision Making-Modify, fade, or intensify based on ongoing data

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What Type of Data Matters Most

- Frequency, intensity, and duration
- ABC (Antecedent-Behavior-Consequence) data
- Goal tracking (e.g., Check-In/Check-Out with Tier 3 modifications
- Fidelity data (Is the plan being implemented as designed?)

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At Tier 3, **every decision is data informed**-from identifying the problem to adjusting the plan. Without data, we're guessing.

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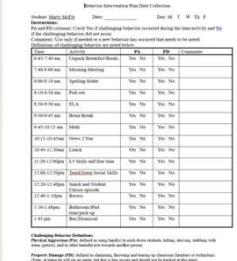
Data Collection Example #1



Purpose: Track Physical Aggression (PA) and Property Damage (PD) during specific daily activities.

Best Use:

- For students with frequent, observable behaviors.
- Allows staff to pinpoint time-specific patterns.

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Data Collection Example #2

Data Collection Sheet

Student: Snoopy   Date: Day: M T W Th F

Activity/Time	Earned Token Board Reward?	Physical Aggression PA	Physical Aggression Tally (how many)	Elope	Elope Tally How many?	Property Destruction	Tally/ Duration How Many/or how long?
Arrival Breakfast 7:00 – 7:30 am	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:
Resource -Math/ELA 7:30 – 8:55 am	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:
Snack 8:55- 9:20 am	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:
Sensory Room 9:20 – 9:45 am	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:
Related Arts 9:45 – 10:25 am	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:
ELA Instruction 10:25- 11:25 am	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:
Social Skills 11:25- 11:40 am	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:
LUNCH/Dismiss 11:45-12:00 pm	Tally:	Y N	Hit: Kick: Punch: Bite: Other:	Y N	Attempt: Success:	Y N	Tally: Start: Stop: Tally: Start: Stop:

COMMENTS DESCRIBING OTHER BEHAVIOR, OR CONCERNS

Purpose: Capture detailed information across behavior types, rewards, duration, and success of redirection.

Best Use:
- For complex Tier 3 cases needing deeper insight.
- Integrates reward tracking with behavior data.

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Data Collection Example #3

Challenging Behavior Data Collection Sheet

Student Name: Mikey Walsh

Week of:

Time/ Activity	Monday	Tuesday	Wednesday	Thursday	Friday
6:30-7:30am	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None
7:30-8:30am	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None
8:30-9:30 am	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None
9:30-10:30am	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None
10:30-11:30am	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None
11:30-12:30pm	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None	Pinch Scratch Bite Other Elope None
Daily Comments [illegible]					

Purpose: Document specific behavior types across the day and week.

Best Use:
- For high-frequency, low intensity behaviors.
- Effective in identifying consistent patterns and triggers.

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Fill out Form

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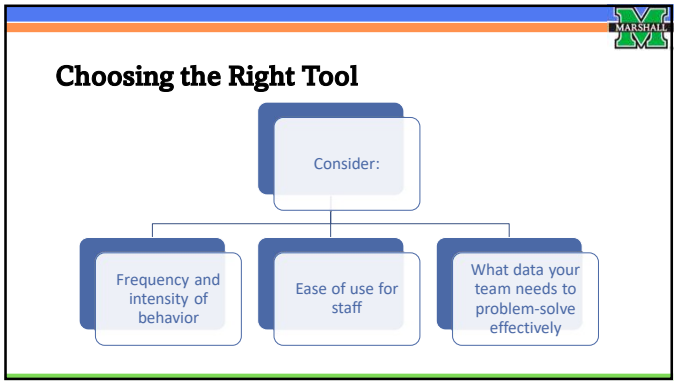
Choosing the Right Tool
Consider:
Frequency and intensity of behavior
Ease of use for staff
What data your team needs to problem-solve effectively

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The best tool is the one that's used consistently and informs your next step.

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What do we do once we collect the data?

- Analysis and Decision-Making!
- Goal is to find patterns and figure out where the pattern in disrupted
- Visualization is crucial!

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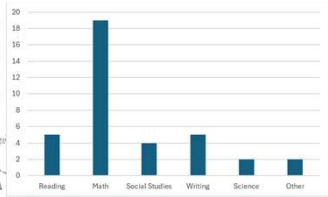
Which is easier to analyze?

Frequency Data Sheet

Student: Mark S. Week: 10/7 - 10/11

Behavior: calling out without raising hand during small + large group instruction

Time/Activity	Monday	Tuesday	Wednesday	Thursday	Friday
Reading	II	III			
Math	IIII	IIII	II	IIII	II
Social Studies		III		I	
Writing	I	I		III	
Science			I		I
Other					II (copy pages)
total =	9	12	3	8	5



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Back to Math Class... Analysis Basics

- Frequency
  - The total number of something
  - Add all of the data together
  - "Last week Student A had 7 incidents of physical aggression."
- Averages
  - Looking for a "typical" number to describe a data set
  - Add the data points together and divide by the of data points.
  - "Last week on average, the student engaged in 2 physical aggression incidents a day."

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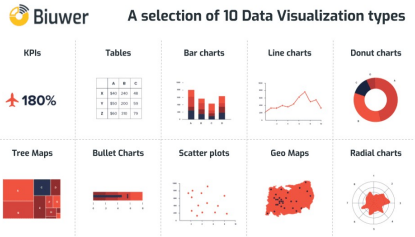
Different Data Visualization Options



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Tips for Good Graphs

- Make sure scales are consistent
- Scales should be the same when comparing
- Distinct colors for multiple variables with a legend
- Remember axis labels and titles
- Avoid too much information and 3D bar graphs
- Start Scales at Zero

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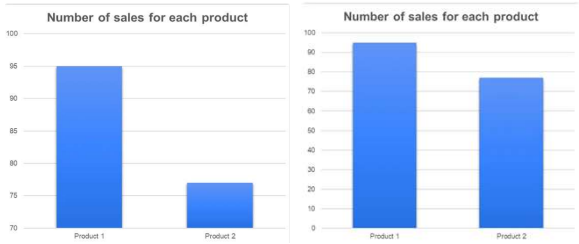
Graphs Example



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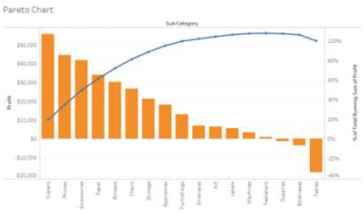
Tools for Data Visualization

- Pen and Paper (graph paper preferred)
- Excel
- Tableau
- PowerBI
- Google Charts
- Many Others!!



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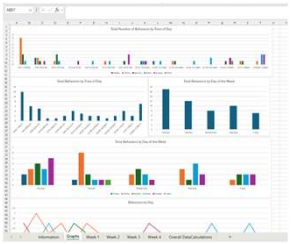
Excel Calculator Examples

Data Collection Example 1



Data Collection Example 2

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Excel Calculators

- Calculator/Visualization tools for Data Collection Example #1 and #3
- https://www.marshall.edu/bmhtac/2025-tackling-tier-3/

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Thank You!

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Complete your evaluations!

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