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Andrea T. Miller & Gerry Trelease

School Social Worker School Psychology Coordinator

DATA COLLECTION & GRAPHING

OBJECTIVES

- × Understand what data is.
- Understand the purpose of data collection.
- Understand types of data to be collected.
- Understand methods of data collection.
- Review methods of graphing data.

WHAT IS DATA?

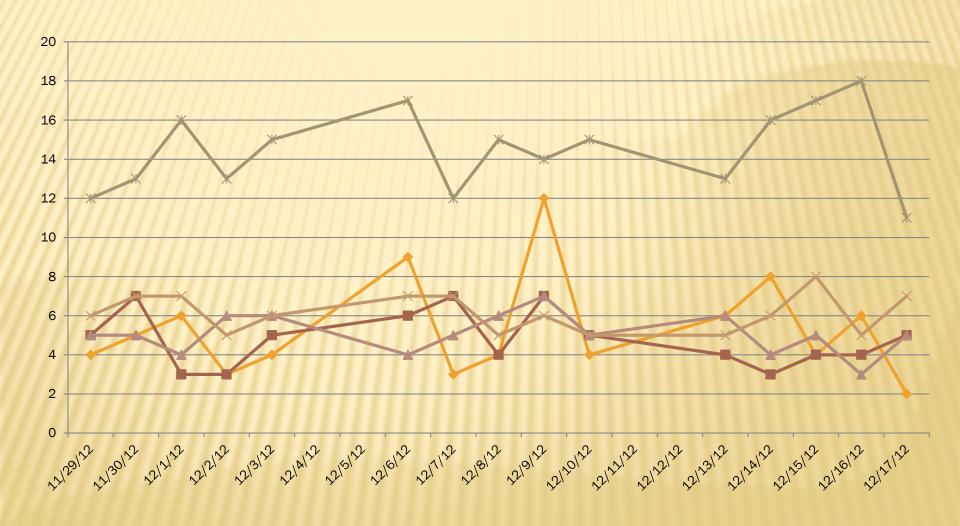
- Data is information
 - + Recognize that some information is useful and some is not.
 - + Data for the sake of data is of little use and can be distracting.
 - + Collection should be purposeful and focused.
 - + Being a good consumer of data is important.

IS THE DATA USEFUL?

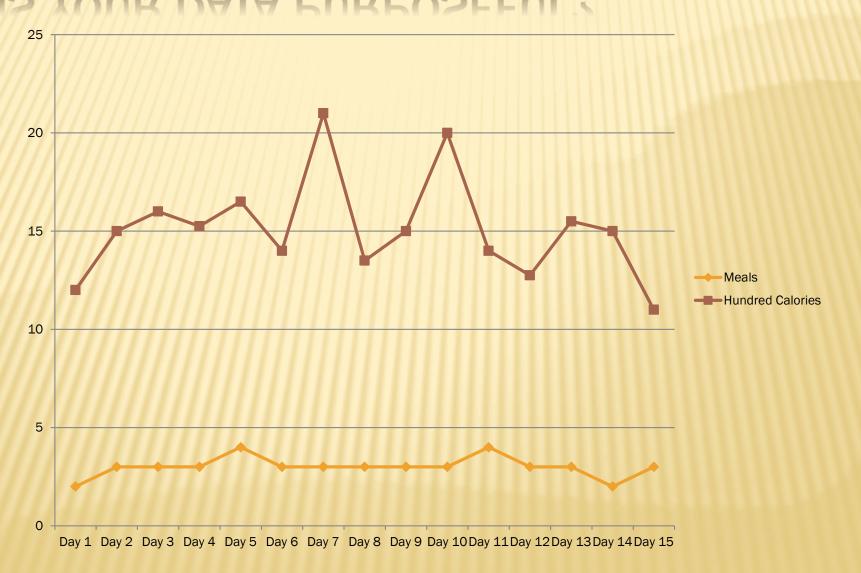
* 4 out of 5 people are taller than 20% of the population.



DATA OVERLOAD



IS YOUR DATA PURPOSEFUL?



- * Student A
 - + On-Task rate of 71%
 - + Complies to 78% of requests first time asked
 - +65% work completion rate

* Student A

- + On-Task rate of 71%
- + Complies to 78% of requests first time asked
- +65% work completion rate

Class Average

- + On-Task rate of 75%
- + Complies to 82% of requests first time asked
- +69% work completion rate

* Student A

- + On-Task rate of 71%
- + Complies to 78% of requests first time asked
- +65% work completion rate

Class Average

- + On-Task rate of 93%
- + Complies to 92% of requests first time asked
- + 97% work completion rate

* Student A

- + On-Task rate of 71%
- + Complies to 78% of requests first time asked
- +65% work completion rate

Class Average

- + On-Task rate of 42%
- + Complies to 35% of requests first time asked
- + 26% work completion rate

PURPOSE OF DATA COLLECTION

- One of the main purpose of data collection is to improve our ability to make decisions.
 - + Is this a problem?
 - + Is it a group problem or an individual problem?
 - + Is our intervention working?
 - + Etc.

TYPES OF DATA

- Most data is collected based on a few factors.
 - + Frequency how many times does it happen?
 - + Duration how long does it last?
 - + Percentage how accurate is it or how many times does it happen compared to opportunities for it to happen.
- Other possible factors:
 - + Intensity how "big" is it?
 - + Latency how long of delay before it happens?
 - + Function what purpose does it serve?

NECESSARY CHARACTERISTICS

× Observable

- + The behavior can actually be seen
- + It is <u>not</u> something that is underlying and assumed to be occurring

Measurable

+ The behavior can actually be measured or rated

Well Defined

+ The behavior is operationally defined - <u>objective</u> and <u>simple</u> so that two or more people can agree when the behavior occurs.

CLASSROOM OBSERVATION

http://www.youtube.com/watch?v=OP2_hBZX



TARGET BEHAVIOR EXAMPLES

Good Examples

- + Noncompliance
 - × not following directions
 - × defiance/refusal
- + physical aggression
- + talking out
- + Out of seat
- + swearing
- + tardy/absent
- + work completion
- + off -task*

Poor Examples

- + disrespectful
- + doesn't take responsibility
- + lacks motivation
- + bad attitude
- + lacks self-esteem
- + out of control

CLASSROOM OBSERVATION

http://www.youtube.com/watch?v=OP2_hBZX



METHODS OF DATA COLLECTION

- How you collect data is often determined by the characteristics of the behavior.
 - + High Frequency
 - Out of seat, off-task, non-compliance, work completion, etc.
 - + Low Frequency
 - × Physical aggression, tantrums, absences

METHODS OF DATA COLLECTION

× Common methods:

- + Direct observation
 - Watching and recording the frequency, duration, intensity, etc. of behavior
- + Ratings often contracts
 - More subjective recording of a behavior often intensity – usually over a prescribed period of time
- + Anecdotal Reports
 - Usually not preferable but sometimes the only way to record very low incident behavior – also can give detailed characteristics or qualities of a behavior

METHODS OF DATA COLLECTION

Direct observation

- + Watching and recording the frequency, duration, intensity, etc. of behavior
- + Often the best way to get accurate data.
- + Time intensive
 - x Taking data continually is not practical, so interval sampling is a good alternative.
- + Staff intensive
 - × Requires someone dedicated to take data and doing nothing else during that time.

OUTCOME DATA COLLECTION METHODS

- × Points on contract
- Percentage of time on-task
- Number of days/minutes in or out of class
- Frequency counts (how many times behavior occurred)
- Duration (how long behavior occurred)
- Number of completed assignments
- Number of incidents/office referrals

DATA COLLECTION TOOLS OBSERVATION

| Time Ended Independent work session n after each 1 or independer get student. |
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| nterview teacher: | _ | -Y | | | | | | |
| | 3 (7) | pear able to perform the as | | | | | | |
| Clear Classroom Expe | ectations: | Posted Classroom Rul Planned Consequence | es? | _ | -Y | | | |
| | Is there a stude | ent progress feedback syst | em? | _ | - I | | | |
| Comments: | and there a study | one progress recubuen syst | | - | ' | | | |
| Johnnens. | | todony (* | | | | | | |
| Sedential Sedent | Barrier - Carr | II Igano esta | (T.A | | * | | | |
| Summary: | | Teacher Inte | | | # Negative | | | |
| Target student: | % on-task | # Positive | | | | | | |
| Class comparise | on: % on-task | # Positive | 1000 | | # Negative | | | |
| | | | verage Or | task Par | To ensurar Cha | | | |
| | | | BD | LD | Non-handicapped | | | |
| | | First Grade | 70.2 | 75.7 | 80.42 | | | |
| | | Second Grade | 42.4 | 78.7 | 81.9 | | | |
| | % On-task (target) | Third Grade | 73.9 | 70.0 | 81.7 | | | |
| # On-task / # of i | | Fourth Grade | 55.45 | 80.95 | 83.17 | | | |
| On war I broth | iner rate (20) | Fifth Grade | 75,35 | 86.1 | 81.95 | | | |
| | | Sixth Grade | 56.8 | 73.3 | 78.57 | | | |
| | | 0 00 | 59.7 | mr o | 86 C 86 | | | |
| | | Seventh Grade Eighth Grade | 60.3 | 75.3 75.8 | 79.7 83.7 | | | |

Ninth Grade

Tenth Grade

Eleventh Grade

79.9

87.1

86.1

70.2

73.0

83.5

83.9

80.9

Purpose:

- An analysis of the behavioral data allows 1
 Comparison of referred student with class:
 Assessment of classroom disciplinary syst
 Sampling of academic programming/student response.
 Designing of in-class interventions.
- ONE fully completed form meets LD evaluation requirements (State Rules A-6 c. 2)
 THREE fully completed form meets BD evaluation requirements (State Rules A-30 c.1)

DATA COLLECTION TOOLS- SCATTERPLOT

Scatter Plot Data Sheet Student Name: Teacher: Week of: Name of Observer: Purpose of the Form: To track the occurrence of target behaviors and replacement behaviors over an interval of time (Partial interval recoding). Directions: Identify behaviors (in specific, observable, measurable terms) and list on the key. For each period of time, as the behavior occurs, circle the number corresponding with the behavior. 11:45-12:00 12:00-12:15 12:15-12:30 8:30-8:45 12:45-1:00 1:45-2:00 2:00-2:15 Monday Friday Target Behavior or Replacement Behavior (clearly specific, observable, measurable terms):

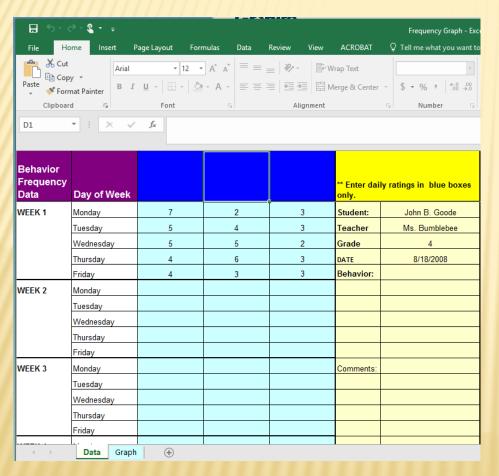
DATA COLLECTION TOOLS- FREQUENCY

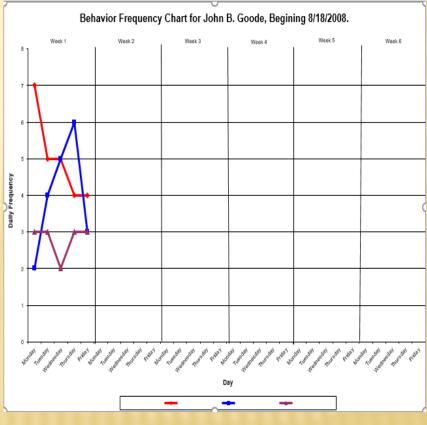
Frequency Recording Form

This data sheet is arranged for recording the frequency or number of times a behavior occurs in a given time period. It is the data collection method of choice when the objective is to increase or decrease the number of times a student engages in a particular behavior.

| Student | | Date Grade | | | | | | | | |
|---------------|-----------|------------|------|------|------|------|------|------|------|-----|
| School | | Teacher | | | | | | | | |
| Unexpected or | | | | | | | | | | |
| Expecte | d behavio | r | | | | | | | | |
| 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Date | Date | Date | Date | Date | Date | Date | Date | Date | Date | Dat |

DATA COLLECTION TOOLS FREQUENCY GRAPH





DATA COLLECTION TOOLS- ABC FORM

| Student | | | | School | | | Grade | | | |
|--|---|----------------|-----------|------------|--|---------------|--|---------|-----------------|---|
| Behavior Observed | | | | | | | L | | | |
| End Time: Activity: People: | Today's date Time of anteceder Time behavior disc Designated activit People involved Where the behavior | continued y | The exact | events pre | ened before? ceding the (Antecedent) | A description | at happened of the unexpecte servable terms. | ? ed | The exact event | appened after? s following the avior. (Consequence) |
| Date: Start Tim End Time Activity: People: Place: | | | | | | | | | | |
| Date: Start Tim End Time Activity: People: Place: | | | | | | | | | | |
| Date: Start Tim End Time Activity: People: Place: | | | | | | | | | | |

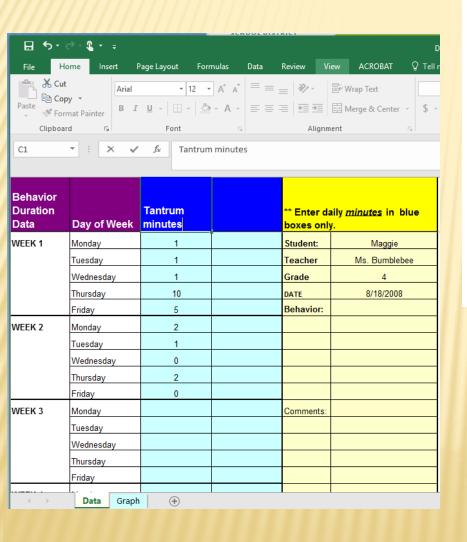
| tudent Name: | | School: | Observer |
|----------------------------|---|---|--|
| onsequences whic | h may be maintaining the targe | t behavior. A-B-C data should b | ial antecedents (precursors) and e collected until a pattern emerges, lude student-specific information. |
| | Antecedent (What happens before the behavior?) | Behavior (What happened?) Check all that apply | Consequences (What happened after?) Check all that apply |
| | Check all that apply | | |
| Date: .ocation/Setting: | Given direction/task/activity Asked to wait New task/activity Difficult task/activity Preferred Activity interrupted Activity/Item denied(told no) Loud, noisy environment Given assistance/correction Transition between location/activities | Refusing to follow directions Making verbal threats Disrupts class(describe): Crying/Whining Screaming/Yelling Scratching Biting Spitting Kicking Flopping | ☐ Verbal redirection ☐ Physical assist/prompt ☐ Ignored Problem behavior ☐ Kept demand on ☐ Used proximity control ☐ Verbal reprimand ☐ Removed from activity/location ☐ Given another task/activity ☐ Interrupted/blocked and redirected ☐ Left alone |
| Time/Duration: | ☐ Attention not given when wanted ☐ Left alone(no indiv. Attention) ☐ Left alone (no approp. Activity) ☐ Other | ☐ Running away/bolting ☐ Destroying property ☐ Flipping furniture ☐ Hitting self ☐ Hitting others ☐ Verbal refusal ☐ Other | ☐ Isolated within class ☐ Loss privilege ☐ Calming/soothing: Verbal/physical/both ☐ Time-out (duration): |

DATA COLLECTION TOOLS

| Name: | | Functional Assessment Observation Form |
|---------------|--------------|--|
| Starting Date | Ending Date: | |

| | | | | | | | | | | | | | | eived | | | | | | | \neg | | | | | |
|---------|--------|------|------|-------|-----|---------------|--------------|-------------|--------------|----------------------|-------|--------|--------|-----------|----------------------|------------------|--------|-----------------|------------|--------|--------|------------------|------------|------|---|---|
| | | | Beha | viors | | | | | Predi | ctors | | | | | Get/C |)btain | 1 | E | scape | /Avo | id | | Act Con | | | |
| | Time | | | | | DemandRoquest | DiffaultTask | Transitions | Interruption | Alone (no attention) | | | | Attention | Desired Ren/Activity | Self-Stimulation | | Deman d'Roquest | Activity (| Person | | Other/Don't Know | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Totals | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | | | 123 | 456 | 789 | 10 11 | 12 1 | 3 14 | 15 16 | 17 18 | 192 | 0 21 2 | 22 23 | 24 25 | 262 | 6 28 2 | 29 30 | 31 32 | 33 3 | 4 35 3 | 36 37 | 38 39 | 9 40 | | ヿ |
| L | | Date | 25: | | | | | | | | | Dates: | | | | | | | | | | | | | | |

DATA COLLECTION TOOLS DURATION



Antecedent/Behavior/Consequence Form (ABC) Student School Behavior to be Observed: Today's date What happened before? What happened? What happened after? Start Time: Time of antecedent The exact events preceding the A description of the unexpected The exact events following the End Time: Time behavior discontinued unexpected behavior. (Antecedent) behavior in observable terms. unexpected behavior. (Consequence) Activity: Designated activity (Rehavior) People: People involved Where the behavior occurred Date: Start Time: End Time: Activity: People: Place: Date: Start Time: End Time: Activity: People: Place: Date: Start Time: End Time Behavior Duration Chart for Maggie, Begining 8/18/2008. Activity: People: Place: Week 4 Week 6 Tantrum minutes

DATA COLLECTION TOOLS- EMERGENCY CONTACT FORM

Granite School District

EMERGENCY CONTACT FORM

If an emergency situation occurs that requires the immediate use of highly intrusive individual interventions to protect the student or others from harm, the staff shall compilete and submit the emergency contact information to the LEA and notify the student's parents within 24 hours. (Utah State Office of Education Rules III 1(b)(5)(c)).

| Student Name: | | Occurrence #: |
|--|---|--------------------------|
| Teacher: | Date: | |
| School: | Grade: | DOB: |
| Staff in Attendance: | | |
| | | |
| What were the circumstances surrour | ading the incident? | |
| Activity | Location | Time of Day |
| - | | • |
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| | | |
| 2. Describe the incident/event | | |
| Antecedent (Activity/event that occurred before the behavior) | Behavior (Measurable and observable) | Time of Day |
| occurred before the behavior) | observable) | |
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| 3. What Intensive (highly intrusive) indiv | idual intervention(s) were used? | |
| Intervention Procedures | Duration of Intervention | Staff Member(s) Involved |
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Granite School District

| EMERGENCY CONTACT FORM | | | | | | | |
|---|---|--|--|--|--|--|--|
| 4. Were there any injuries? | | | | | | | |
| If yes, describe | | | | | | | |
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| 5. What could be done to prevent this from happening a | | | | | | | |
| Preventative Proactive Intervention(s) | Steps Needed to Implement Intervention(s) | | | | | | |
| | | | | | | | |
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| | 1 | | | | | | |
| Does the student have a current Functional Behavior Yes No | Assessment (FBA) and Behavior Intervention Plan (BIP)? | | | | | | |
| | | | | | | | |
| 7. Parent(s) notified (within 24 hours): In Person | By PhoneIn Writing | | | | | | |
| a with a | - | | | | | | |
| Person Notifying Parent: | Time: | | | | | | |
| | | | | | | | |
| Signature of Person Completing | Form Date | | | | | | |
| | | | | | | | |
| Claratura of LEA | Data | | | | | | |
| Signature of LEA | Date | | | | | | |
| Staff must notify parents within 24 hours of the use of em the emergency contact information to the LEA/Special Education | ergency intervention procedures. Staff shall complete and submit ion Director within 24 hours. | | | | | | |
| Staff should refer to specific LEA policies on the continued use | age of emergency interventions. | | | | | | |
| times in a year. If the frequency of the student behavior requi modifications need to be made to the IEP, existing BIP or a ne | ur no more than once per week, two times in a month, or a total of four red emergency behavior intervention exceeds these limits, ew BIP should be considered. Upon request parent(s) should be | | | | | | |
| provided a copy of the emergency contact form. | | | | | | | |

PROCEDURES OF DATA COLLECTION

- + Baseline Data Collection
- + ABC's of Behavior
- + Functions of Behavior

BASELINE DATA

- What is happening before an intervention is put into place?
- Starting place to measure intervention effectiveness
- Unfortunately, schools sometimes skip taking baseline data because of perceived need of intervention
 - + How do you know what intervention to implement without good understanding of the behavior?
 - + How do you know your intervention is working?



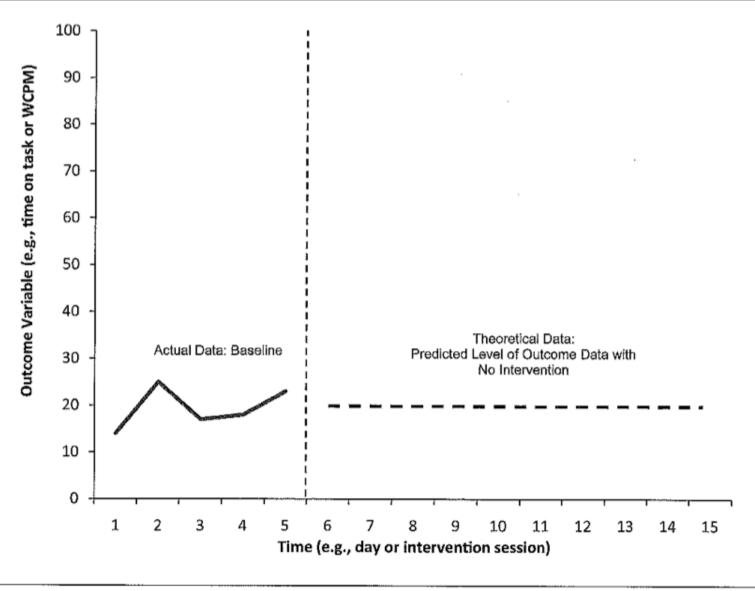


FIGURE 2.1. Baseline logic: Prediction. Adapted from Cooper, Heron, and Heward (2007). Copyright 2007 by Pearson Education, Inc. Adapted by permission.



INTERVENTION DATA

- Measures the frequency, duration, latency, intensity, function, rate or percentage of the observable behavior to determine increase or decrease of desirable behavior.
- Can be compared with baseline data points or other interventions data points to determine effectiveness of the new strategies.



24

EVALUATING EDUCATIONAL INTERVENTIONS

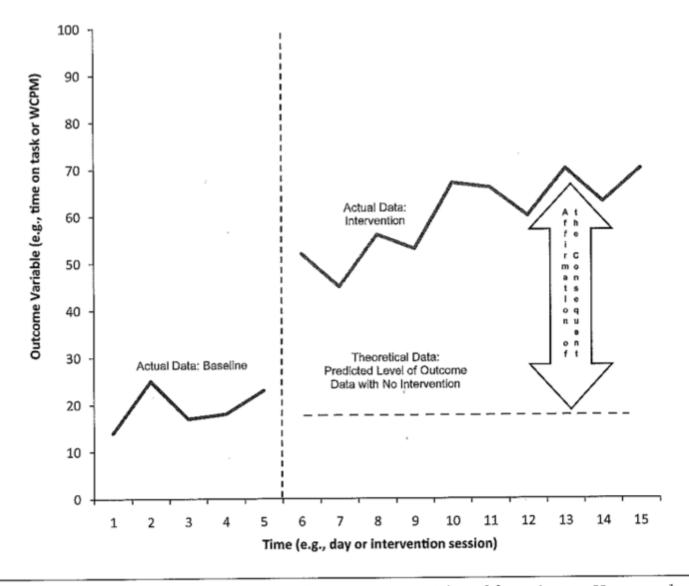


FIGURE 2.2. Baseline logic: Affirmation of the consequent. Adapted from Cooper, Heron, and Heward (2007). Copyright 2007 by Pearson Education, Inc. Adapted by permission.



A-B-C'S OF

UNDERSTANDING BEHAVIOR

- Setting Event
- * Antecedent
 - + What happens before the behavior occurs?
- × Behavior
 - + What is the behavior?
- × Consequence
 - + What happens after the behavior occurs?

FUNCTIONS OF BEHAVIOR

- Current models of functional behavior assessment (FBA) agree to these functions of behavior:
 - + Escape/Avoid
 - + Attention
 - + Tangible
 - + Automatic Reinforcement (sensory stimulation)
- Understanding the function allows intervention to be customized and more accurately targeted.

GROUP ACTIVITY

In each of the following clips:

- Discuss the ABC's of the behaviors
- Develop a hypothesis for the function of the behavior

If you were the BHA assigned to work with these students which antecedent strategies discussed last month do you think would be effective?

WHAT'S THE FUNCTION?





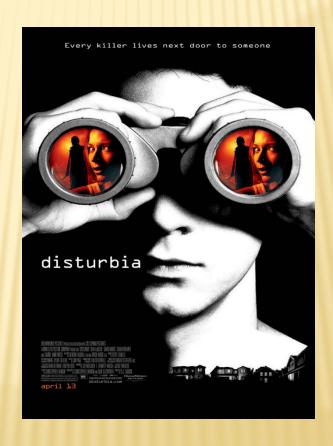
crybaby1_1.mov

WHAT IS THE FUNCTION?



WHAT IS THE FUNCTION?

* Intro to *Disturbia* look for SE- A-B-C



Group Activity: Exit Ticket

Discuss the ABC's of the behaviors

Develop a hypothesis for the function of the behavior

As the BHA assigned to work with each student which antecedent strategies discussed last month do you think would be effective? Positive Relationships, Positive Reinforcement, Proximity, pre correcting, redirecting, behavior momentum

| Examples: | Antecedent | Behavior | Consequence | Function | Form for data | Antecedent |
|------------------------|------------|----------|-------------|----------|---------------|------------|
| | | | | | collection | strategies |
| Crying | | | | | | |
| , 0 | | | | | | |
| Tantrum | | | | | | |
| | | | | | | |
| Teacher Altercation | | | | | | |

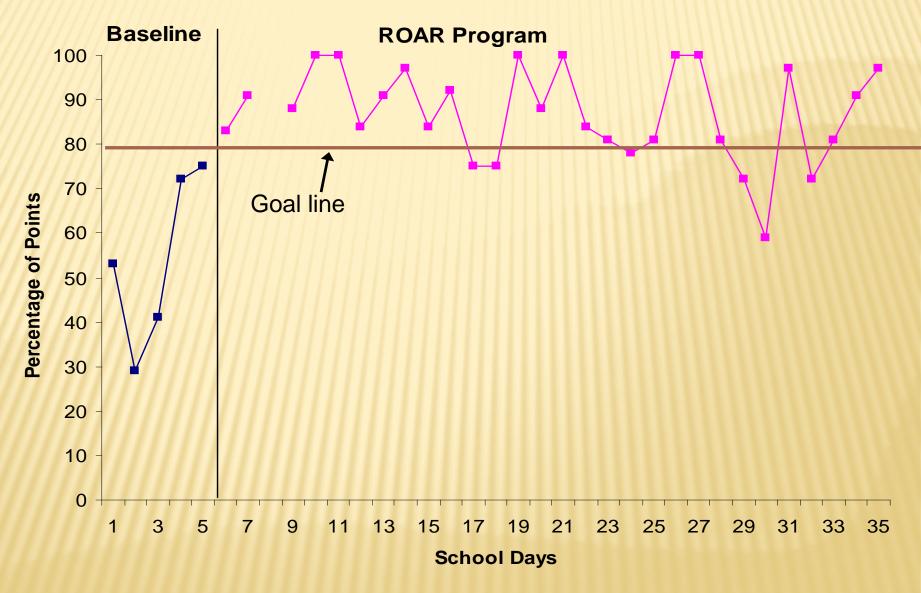
METHODS OF GRAPHING DATA

- Graph Paper
- Some packaged behavior management software
- Microsoft Excel

PURPOSE OF GRAPHING DATA

- Easier to see change/trends
- Allows comparison of behaviors (i.e., target and replacement behaviors)
- * Allows comparison of behavior in different phases of intervention (baseline, intervention, revised intervention, post-intervention, etc.)
- * Be responsible in its presentation

Wild Card Data for Student A



HOURS OF SLEEP PER DAY

| Hours of Sleep Per Day | | | | | |
|------------------------|-----|--|--|--|--|
| Day 1 | 7.7 | | | | |
| Day 2 | 7.5 | | | | |
| Day 3 | 7.8 | | | | |
| Day 4 | 8.0 | | | | |
| Day 5 | 7.7 | | | | |
| Day 6 | 8.0 | | | | |
| Day 7 | 7.6 | | | | |
| Day 8 | 8.1 | | | | |
| Day 9 | 7.8 | | | | |
| Day 10 | 7.6 | | | | |
| Day 11 | 8.2 | | | | |
| Day 12 | 8.0 | | | | |
| Day 13 | 8.1 | | | | |

HOURS OF SLEEP PER DAY



HOURS OF SLEEP PER DAY



OBJECTIVES

- × Understand what data is.
 - + Data is information.
- Understand the purpose of data collection.
 - + It helps in meaningful decision making.
- Understand types of data to be collected.
 - + Frequency, Duration, Latency, Intensity, Function, Percentage

OBJECTIVES

- Understand methods of data collection
 - + Direct observation, ratings, anecdotal reports
- Review methods of graphing data
 - Graph Paper, behavior management products,
 Microsoft Excel

QUESTIONS?

