The Emerging Alternative: <u>Direct Behavior Rating</u>

Theodore J. Christ, Ph.D. (tchrist@umn.edu)

University of Minnesota

Christopher Riley-Tillman, Ph.D.

(crileytillman@yahoo.com)

East Carolina University

University of Connecticut

Sandra M. Chafouleas, Ph.D. (sandra.chafouleas@uconn.edu)

For more information, go to the website: www.directbehaviorratings.com/index.html

Citation

Christ, T. J., Riley-Tillman, C. T., & Chafouleas, S. M. (2009, February) An emerging alternative for Response to Intervention (RtI): Direct Behavior Rating (DBR), Paper presented at the annual conference for the National Association of School Psychologists, Boston, MA.

In addition, a special series of papers on Direct Behavior Ratings will be published in Assessment for Intervention. The issue is in press and will be published in Fall 2009.

Project VIABLE

Project VIABLE:

Validation of

Instruments for

Assessing

Behavior

Longitudinally &

Efficiently

Formats

Use of DBR in Practice

Research was supported in part by a grant from the Institute for Education Sciences, U.S. Department of Education (R324B060014).





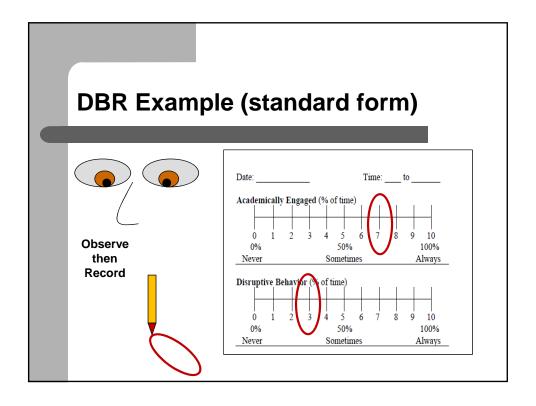
Historical Context: Social-emotional & Behavior Assessment

- Early 1980s Projective Testing Dominant
 - Goh & Fuller, 1981, 1983; Goh, Teslow, & Fuller, 1981
 - Rorschach, Draw-a-Person, and Thematic Appreciation Test
 - idiosyncratic & personalized interpretation
- 1990s: Decline in Projectives
 - Hutton, Dubes, & Muir, 1992; Kennedy, Faust, Willis, & Piotrowski, 1994; Stinnett, Havey, & Oehler-Stinnett, 1994
 - Projectives still in use
 - Greater emphasis on validity, reliability and empirical evidence
 - Ratings scales emerging as a viable alternative

Historical Context

Recent Practice

- Surveys indicate emphasis on ecology, behavior & intervention
 - (Demaray et al., 2003; Koonce, 2007; Shapiro & Heick, 2004)
 - **76%** greater use of behavioral assessments (Shapiro & Heick, 2004)
 - 90% agreed that "behavioral assessments was valuable in linking assessment to intervention" (Shapiro & Heick, 2004).
 - 60 to 90% of cases included interviews, rating scales and direct observation (Shapiro & Heick, 2004)
 - Ratings scales and interviews most valuable for
 - Diagnosis of ADHD (Demaray et al., 2003)
 - Provide the most valuable information (Cashel, 2002)



So why, "Emerging Alternative?"

Deno, S. L. (1985). Curriculum-based measurement: The emerging alternative. *Exceptional Children*, *52*(3), *219-232*.

- General Outcome Measurement
- Reliable and Valid
- Useful for classroom decision-making
- Ideographic database

Emerging Alternative: CBM

- Despite general agreement that we should routinely assess the student performance outcomes from instruction, general agreement regarding how this should be done does not exist.
- Commercially distributed achievement tests are not always congruent with curriculum objectives and teachers tend not to value the information obtained from them.
- Informal observation of performance is the approach used and preferred by teachers.
 - Unfortunately, the reliability and validity of teachers' informal observation of student academic performance is unknown.

Emerging Alternative: DBR

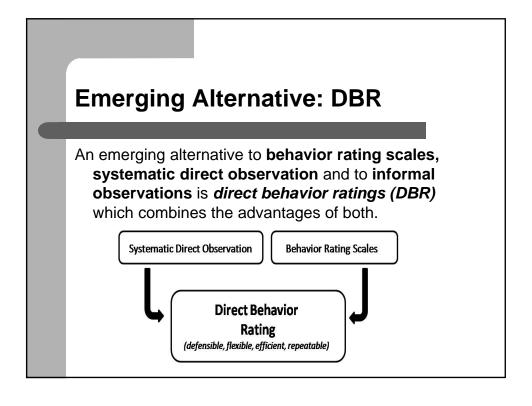
- Despite general agreement that we should routinely assess the student performance in the classroom, general agreement regarding how this should be done does not exist.
- Commercially distributed rating scales are not useful for intervention and teachers tend not to value the information obtained from them.
- Informal observation of **social behavior** is the approach used and preferred by teachers.
 - Unfortunately, the reliability and validity of teachers' informal observation of student social behavior is unknown.

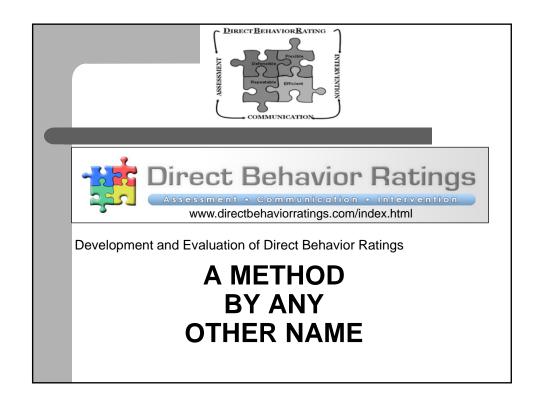
Emerging Alternative: CBM

- An emerging alternative to commercial standardized tests and to informal observations is curriculum-based measurement (CBM) that combines the advantages of both.
 - By standardizing observation of performance in the curriculum, CBM generates reliable data that is valid with respect to widely used indicators of achievement such as achievement test scores and teachers' judgments of competence.
 - These data are now being used to make screening, referral, IEP planning, pupil progress monitoring, and program outcome decisions.
 - This article provides background on and illustrations of the use of CBM in special education

Emerging Alternative: DBR

- An emerging alternative to (indirect) rating scales and to informal observations is the method of Direct Behavior Rating (DBR) that combines the advantages of both.
 - By standardizing observation of performance in the classroom, DBR generates reliable data that is valid with respect to widely used indicators such as rating scales, interviews, and teachers' judgments of competence.
 - These data can be used to make screening, referral, IEP planning, pupil progress monitoring, and program outcome decisions.
 - This paper provides background and illustrations of the use of DBR for Response to Intervention





Good Bad or In Between

(Chafouleas, Riley-Tillman, & McDougal, 2002)

Got the ball rolling ... with a review of "Daily Behavior Report Cards"

- Observed many communication and intervention applications
- Proposed **ASSESSMENT** applications
 - Proposed DBRC as a formative assessment measure
 - Provided initial conceptualization

Other Names for the DBR

(Riley-Tillman, Chafouleas, & Briesch, 2007)

- Daily Behavior Report Card (DBRC)
- Home-School Note
- Behavior Report Card
- Daily Progress Report
- Good Behavior Note
- Check-In Check-Out Card
- Performance-based behavioral recording
- Also
 - Self Management/Monitoring Card
 - Point Card
 - Teacher Rating Form



Who already uses the Daily Behavior Report Cards (DBRC)?

(Chafouleas, Riley-Tillman, & Sassu, 2006)

Teacher Survey about DBRC:

- Purpose
 - 60% use to change student behavior (Intervention)
 - 32% use to **monitor** (Assessment)
 - 32% use "routinely" for classroom management (Intervention)
- Types of Behaviors
 - 81% to identify positive behaviors,
 - 77% to identify negative behaviors
- For Whom?
 - 86% use with individual students
 - 19% with whole class
 - 9% with small groups

Initial Studies and Findings

- What do Daily Behavior Report Cards (DBRCs) measure? An initial comparison of DBRCs with direct observation for off-task behavior
 - (Chafouleas, McDougal, Riley-Tillman, Panahon, & Hilt, 2005)
 - Conclusion: a moderate association between teacher perceptions of behavior as measured by DBRC ratings and direct observation conducted by an external observer.

Initial Studies and Findings

- An analysis of the similarity of Direct Behavior Ratings and Systematic Direct Observation for off-task and disruptive behaviors
 - (Riley-Tillman, Chafouleas, Sassu, Chanese, & Glazer, 2008)
 - Conclusion: replicated moderate association between teacher perceptions of behavior as measured by DBRC ratings and direct observation conducted by an external observer.

Initial Studies and Findings

- Acceptability and reported use of Daily Behavior Report Cards among teachers
 - (Chafouleas, Riley-Tillman, & Sassu, 2006)
 - Conclusion: provide support to previous claims that the DBRC is both a used and accepted tool in practice

Initial Studies and Findings

- The consistency of Daily Behavior Report Cards in monitoring interventions
 - (Chafouleas, Riley-Tillman, Sassu, LaFrance, & Patwa, 2007)
 - Conclusion: suggested similar conclusions might be drawn when visually examining data collected by an external observer using either systematic direct observation or a DBRC

The End of the DBRC Line

- A school practitioner's guide to using Daily Behavior Report Cards to monitor interventions
 - (Riley-Tillman, Chafouleas, & Briesch, 2007)
 - The first "how to" guide for practitioners on DBRC for assessment

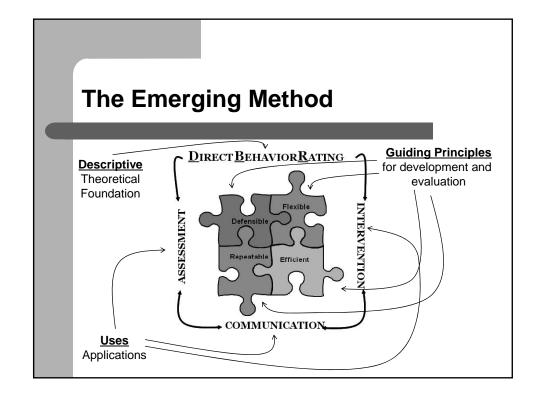
The End of the DBRC Line

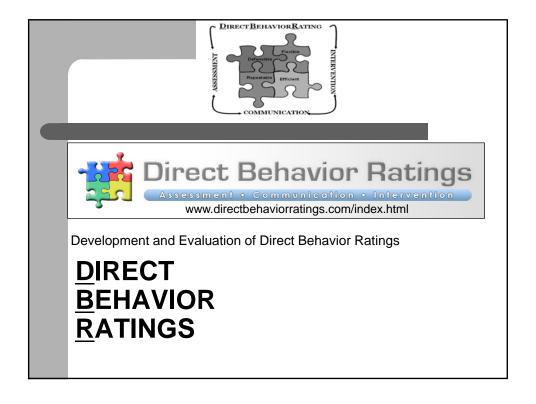
Daily Behavior Report Cards

(Description was limiting)

- "Daily"
 - Predefines schedule
 - Precludes alternatives
 - Atheoretical
- "Report Cards"
 - Communication emphasis
 - Precluded other uses

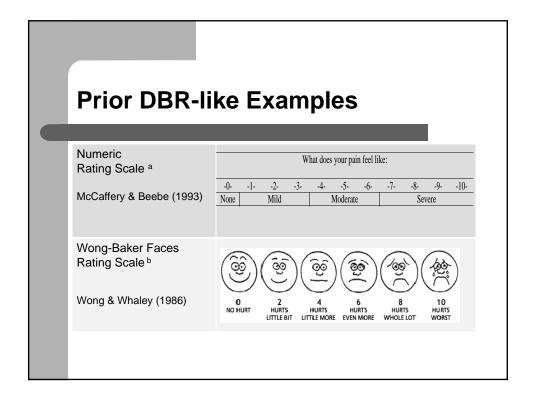
What other description might have stronger - and theoretically consistent - implications for what we are trying to do?

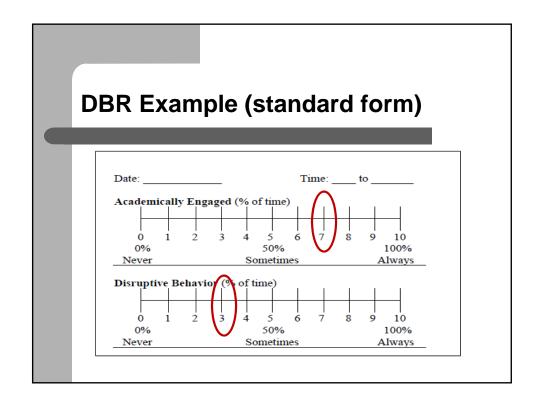


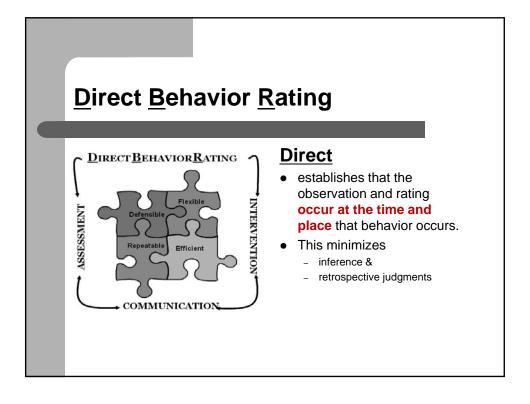


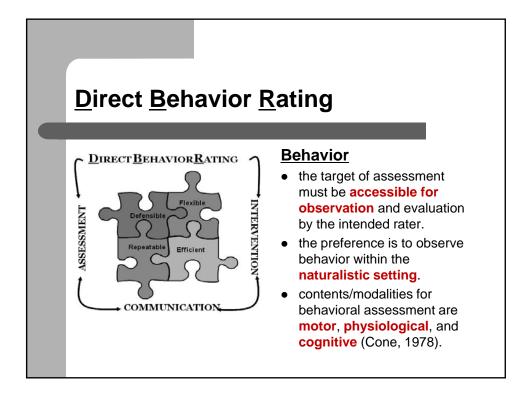
What is Direct Behavior Rating?

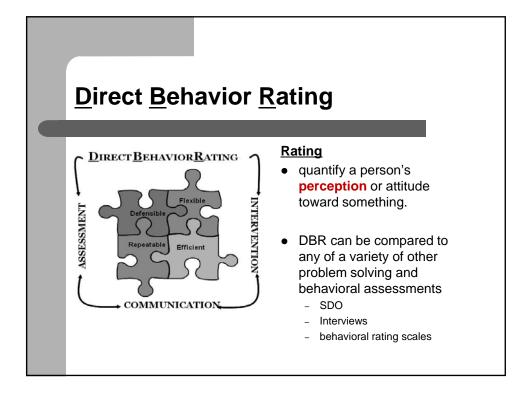
- A tool that involves a <u>brief rating</u>
 of a target behavior following a
 <u>specified observation period</u>
 (e.g. class activity).
 - Single or (brief) Multi-Item

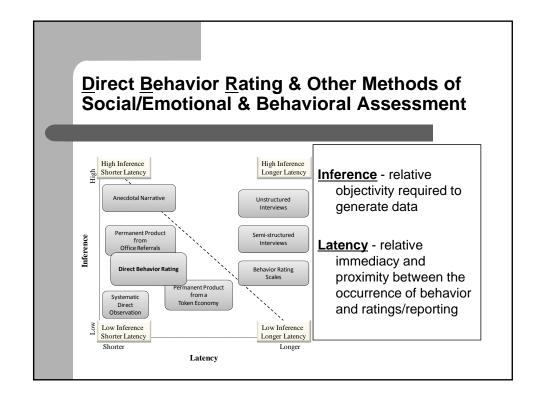


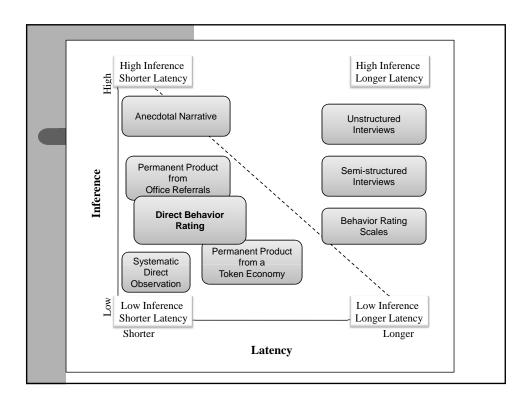


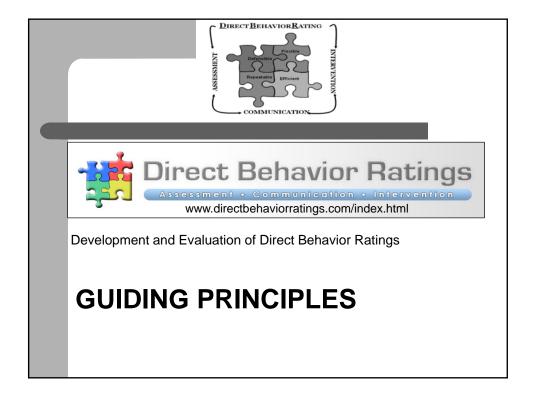




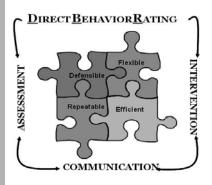








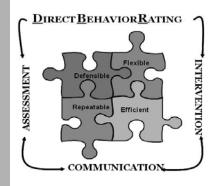
Guiding Principles



Defensible

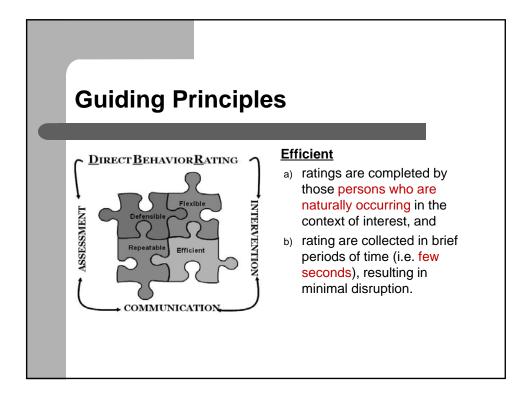
- standardization and demonstrable technical adequacy (e.g., accuracy, reliability, validity).
- A systematic line of research is necessary and ongoing to evaluate and develop both DBR procedures and instrumentation.

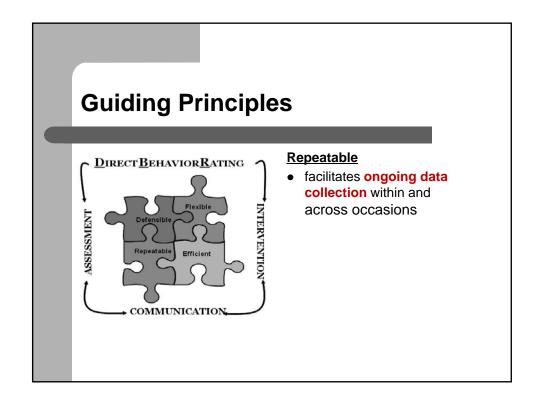
Guiding Principles

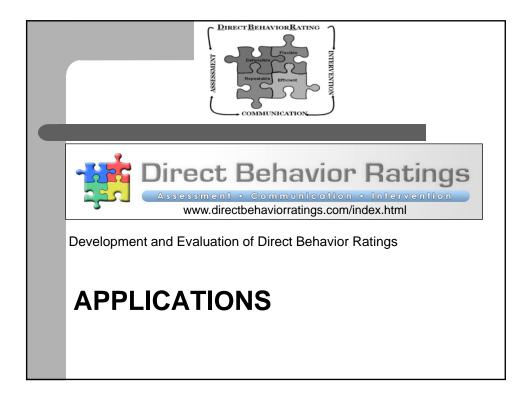


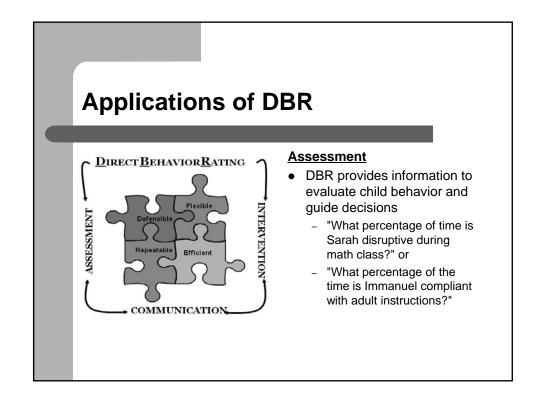
Flexible

- a wide variety of purposes, contexts and behaviors.
 - Variety of instruments
 - Variety of behaviors
 - Variety of purposes
 - screen and identify behavior problems,
 - define the magnitude of problems,
 - monitor progress and intervention
 - evaluate problem solutions
 - part of a multi-method approach to diagnostic and classification decisions.

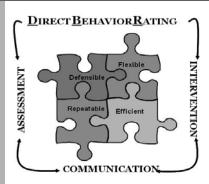








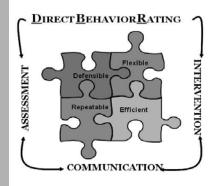
Applications of DBR



Communication

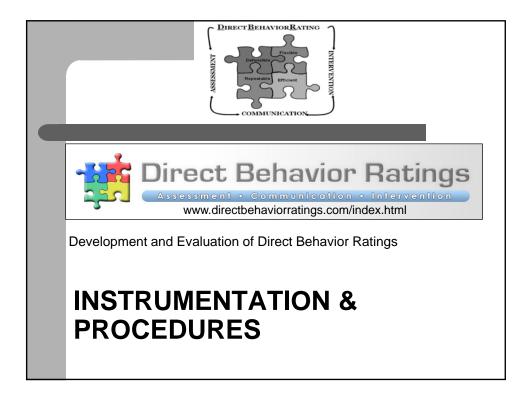
- to share information among those key persons in a child's life (e.g. teacher-child, homeschool, teacher-teacher).
 - immediate and consistent feedback about student behavior
 - fosters shared responsibility for student welfare
 - establish shared behavior goals across settings and persons
 - Increases opportunities for feedback & positive attention

Applications of DBR



Intervention

- substantial body of research exists to demonstrate the effectiveness of interventions that include DBR as one component
 - Incentive Programs
 - Self Management



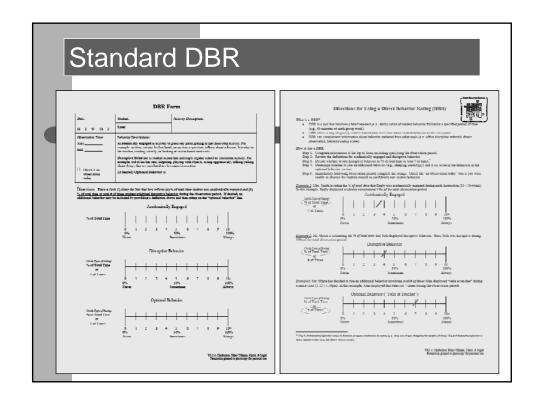
What, When, Where to Observe Instrumentation What bx General Specific Definitions Rating item(s) Procedures When Where Who How often that data are collected

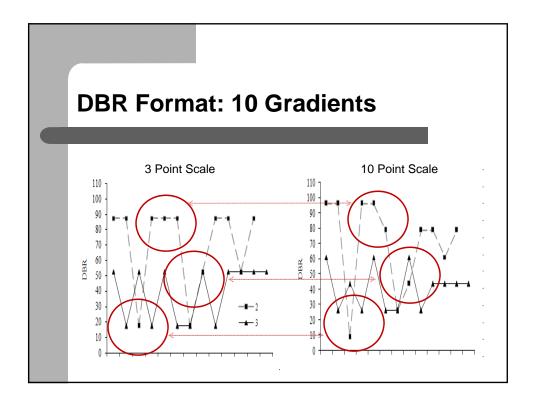
Which behaviors will I rate?

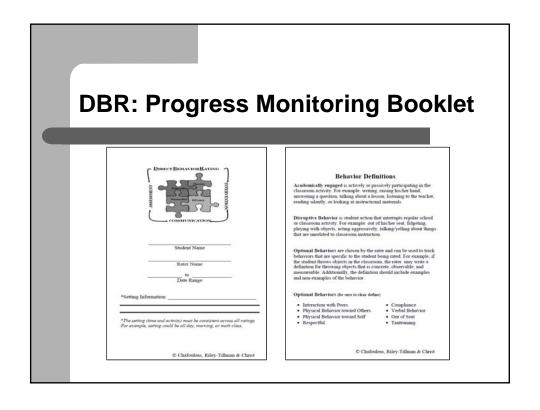
- <u>Academically Engaged</u>: Academically engaged behavior is defined as actively or passively participating in the classroom activity.
 - For example: writing, raising his/her hand, answering a question, talking about a lesson, listening to the teacher, reading silently, or looking at instructional materials.
- **Disruptive Behavior**: Disruptive behavior is defined as a student action that interrupts regular school or classroom activity.
 - For example: out of his/her seat, fidgeting, playing with objects, acting aggressively, talking/yelling about things that are unrelated to classroom instruction.

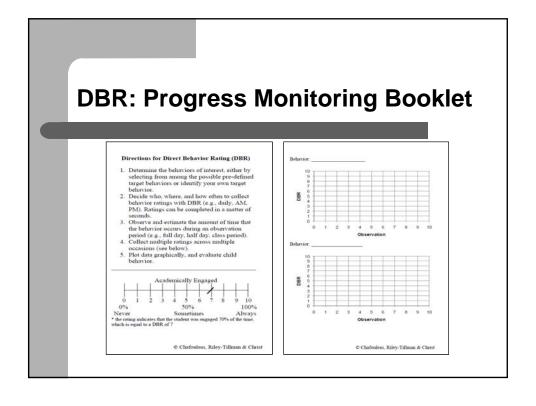
More problematic

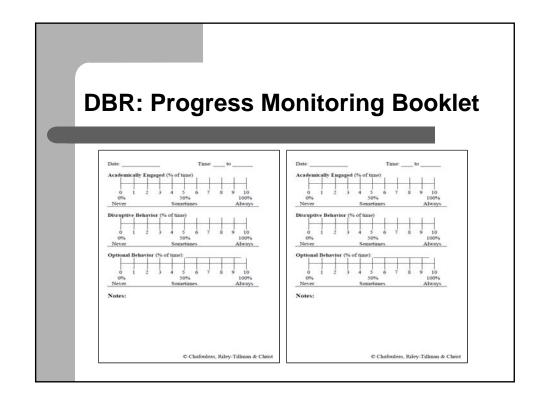
- **Compliance:** To initiate/complete a response to an adult request in a timely and socially acceptable manner.
 - For example: following classroom directions/ instructions, responding to teacher within 5 seconds, being respectful of others while complying, and responding without exhibiting any defiance.

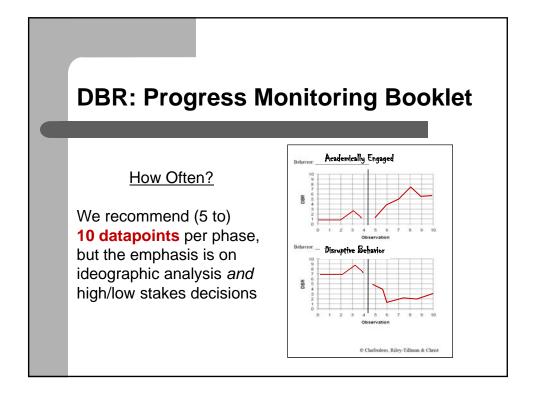


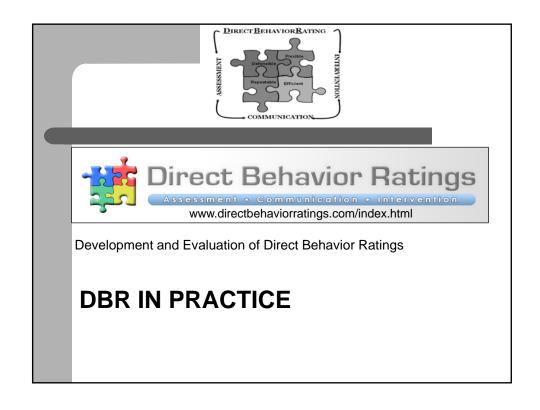


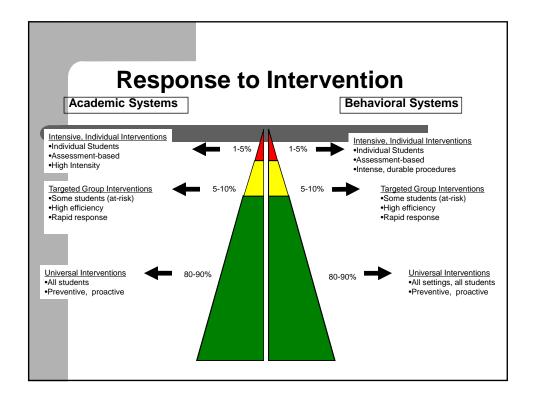


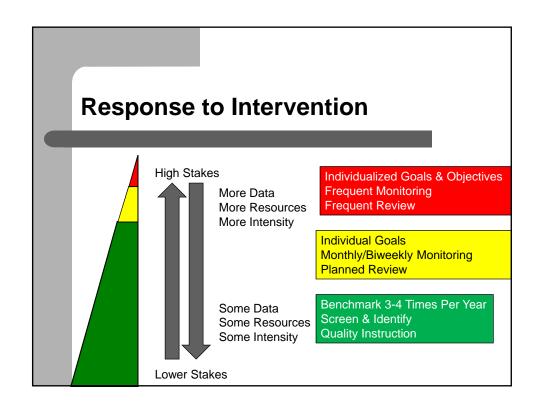








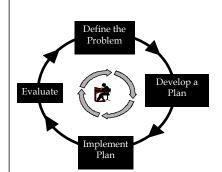




Problem Solving

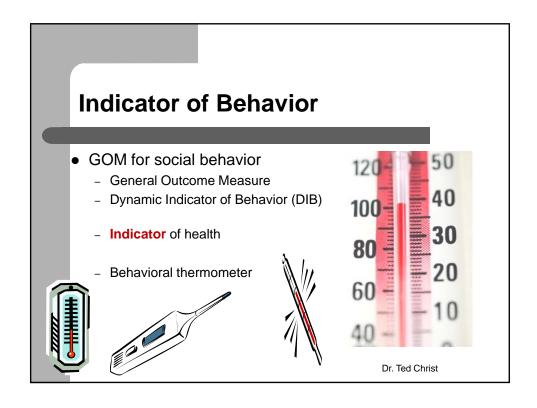
Problem Solving: Questions Problem Solving: Process

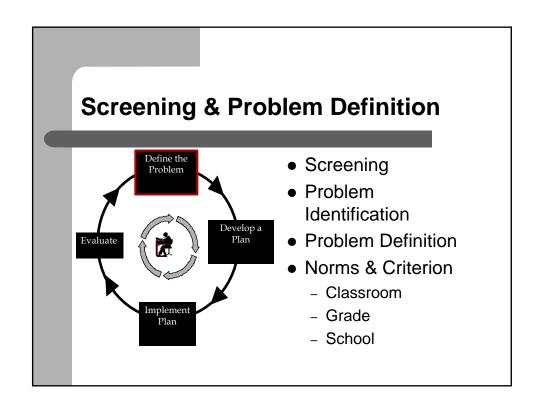
- Define the Problem
 - Is there a problem and what is it?
- Develop a Plan
 - Why is it happening?
- Implement Plan
 - Is the intervention working?
- Evaluate Effects
 - Did the intervention work?

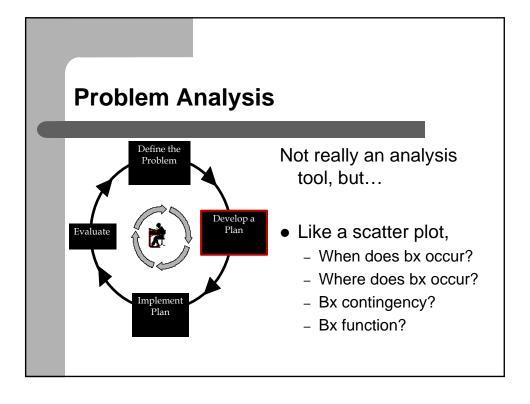


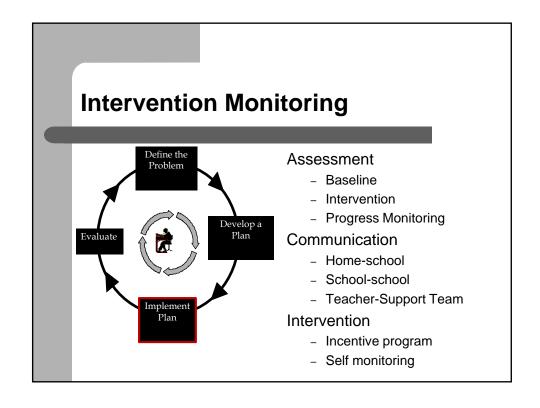
Assessment with PS & Rtl

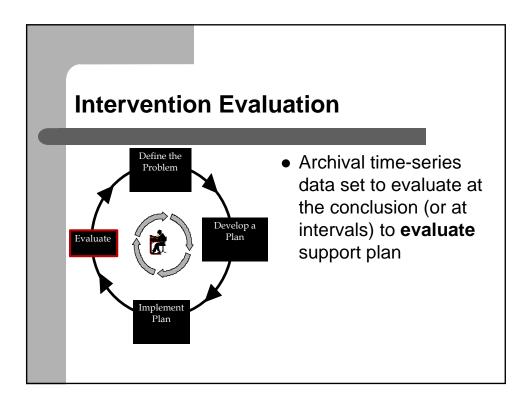
- Success if enabled by
 - Shared, low inference problem definitions
 - Shared, low inference measurement
 - Shared, explicit process of data collection
 - Shared, explicit process of data use
- The **ecology** is a critical variable
 - The interaction between the ecology and the student determines outcomes



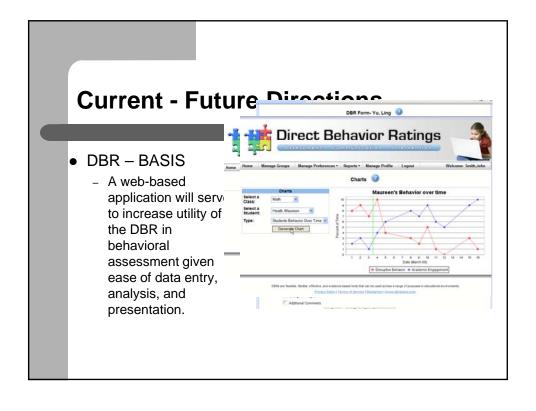














Recent Publications

- Chafouleas, S.M., Kilgus, S.P., & Hernandez, P. (in press). Using Direct Behavior Rating (DBR) to screen for school social risk: A preliminary comparison of methods in a kindergarten sample. Assessment for Effective Intervention.
- Chafouleas, S.M., Riley-Tillman, T.C. & Christ, T.J. (in press). Direct Behavior Rating (DBR): An Emerging Method for Assessing Social Behavior within a Tiered Intervention System. Assessment for Effective Intervention.
- Christ, T.J., Riley-Tillman, T.C., & Chafouleas, S.M. (in press). Foundation for the Development and Use of Direct Behavior Rating (DBR) to Assess and Evaluate Student Behavior. Assessment for Effective Intervention.
- Christ, T.J., & Boice, C.M. (in press). Rating scale items: A brief review of nomenclature, components, and formation inform the development of Direct Behavior Rating (DBR). Assessment for
- Riley-Tillman, T.C., Chafouleas, S.M., Christ, T.J., Briesch, A.M., & LeBel, T.J. (in press). The impact of wording and behavioral specificity on the accuracy of Direct Behavior Ratings (DBRs). School Psychology Quarterly.
- Schlientz, M.D., Riley-Tillman, T.C., Briesch, A.M., Walcott, C.M., & Chafouleas, S.M. (in press). The impact of training on the accuracy of Direct Behavior Ratings (DBRs). *School Psychology Quarterly*.
- Chafouleas, S.M., Christ, T.J., & Riley-Tillman, T.C. (2009). Generalizability and dependability of scaling gradients on Direct Behavior Ratings (DBRs). Educational and Psychological Measurement, 69, 157-173.