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Dr. Andrea Ogonosky


**Data Collection and Interpretation in an RTI Problem Solving Process:
Developing a Successful RtI Approach to Student Achievement**



February 16th, 2011

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About Andrea Ogonosky

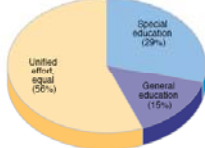


Andrea Ogonosky received her Ph.D. in School Psychology from Penn State University. She has practiced as a School Psychologist in Pennsylvania and Texas. Andrea is the author of The Response to Intervention Handbook- Moving from Theory to Practice & Building Interventions in Grades 6-12. She has authored several articles on curriculum based measurement, response to intervention, and working with struggling learners in the general education classroom. Andrea has been employed as Coordinator of Psychological and Diagnostic services in Humble ISD and as an Educational Consultant for Region IV Education Service Center. She has also taught a behavioral course at the University of Houston Clear Lake. Currently Andrea is an Educational Consultant providing a variety of assessment and consultative services to school districts across the state ranging from implementing response to intervention, completing academic and behavioral assessments, supervision of LSPPs, and providing training to general and special education staff in the areas of curriculum based measurement, response to intervention, ADHD, LD assessment, emotional disturbance, autism, and behavior management. Andrea is a Past President of the Texas Association of School Psychologists.

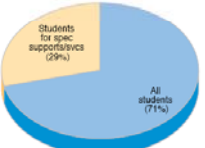
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Response to Intervention—Where?

Q: Who is leading RTI implementation in your district?



Q: Is the district using RTI for all students or to identify students for specialized services and supports?

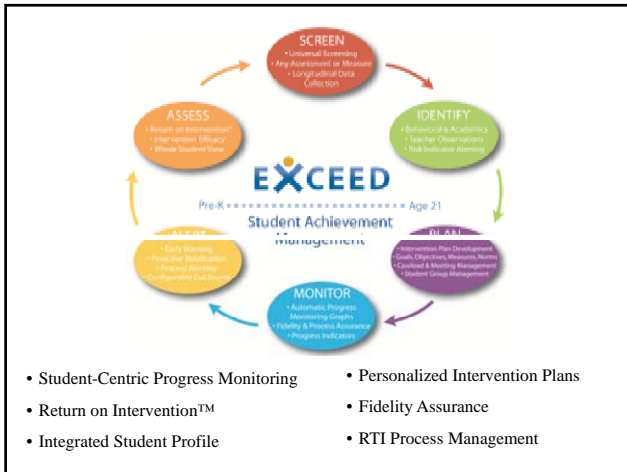


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Spectrum K12 Vision

Reinvent the classroom by delivering a dynamic **Student Achievement Management** system to enable personalized learning for every child



**THE POWER OF ASSESSMENT!
DEVELOPING A SUCCESSFUL
RTI APPROACH TO STUDENT
ACHIEVEMENT**

Andrea Ogonosky, Ph.D.

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Overview

- Data and problem solving
- Using universal screening and progress monitoring data to enhance instruction - Baseline, Rate of Improvement, Aim line
- Avoiding the common errors and barriers in RTI implementation

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Critical Components of RtI

- Problem Solving Framework:
 - Students receive high quality instruction in the general education setting
 - General education instruction is researched-based
 - General education instructors and staff assume an active role in student **assessment**

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Problem Solving




Problem Solving

- Uses scientific method
- Data feedback loop
- Data-based decision making
- Eliminates bias
 - Takes subjectivity out of decisions
- Can be applied:
 - System vs. individual level
 - Regardless of "presenting problem"

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Response to Intervention Team Process is a systematic support system for students.




- For prevention of academic failure.
- For intervention, providing struggling students with the targeted, strategic and intensive intervention they require.

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District Level Policies




- District procedures on RtI
- Structure the intervention process
- Aligns student needs with district level program access
- Policies that define parent involvement
- Clarification of due process procedures for students

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Problem-Solving Process



1. Identify and analyze the problem (including collection of baseline data)
2. Generate a hypotheses and possible intervention strategies
3. Implement an intervention plan with data collection
4. Analyze the data and reviewing/ revising interventions as needed

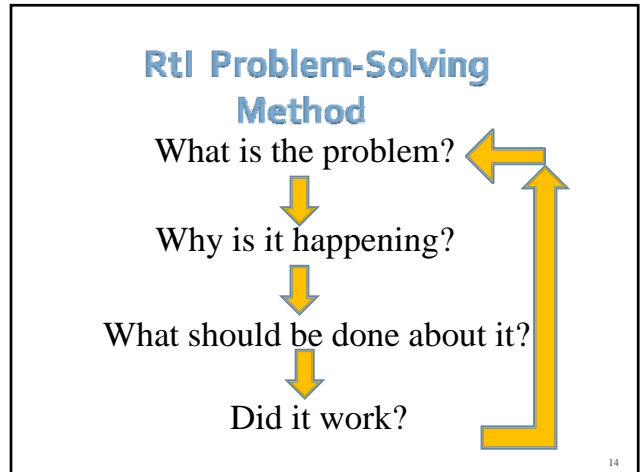
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RTI Problem Solving

- Problem solving is not unusual in teaching, but for most teachers, *problem solving in response to student data consistently and with fidelity is a new approach to the team process.*
- The use of the data has the effect of “grounding” their discussions and helping to maintain a focus in problem solving.
- Moves away from “emotional decision making”.

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Data Collection and Interpretation

- Use of Technology
- Commercial software programs
- Large districts integrate district-wide database and systems

Note: The data is only as good as it is used: collected, aggregated, interpreted and communicated.

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Three Types of Assessments

- Screening
- Diagnostic (formative)
- Outcomes (summative)

Question: What data is your district currently using for problem solving? Are all staff aware of the expectations and understand when and how to interpret?

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Critical Components of RTI

- **Universal screening** of all students
- Defining, in measurable terms, the problem area(s)
- Collecting **baseline data** prior to the start of interventions
- Establishing a written plan of intervention which includes detailing accountability
- Using **progress monitoring (CBM)**
- Comparing intervention data

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Universal Screening

EXCEED Student Achievement Manager

Screener Dashboard

Filter Screeners: All Grades

Screeners: DIBELS Load Screener

Screeners Grade Level Access: Kindergarten through 5th

Week 28 All selected students looked for the selected screener
100% of the selected students looked for the selected screener

Student Name	CBF	LMP	OP	ORF	SWP
...	41	52	71
...	22	43	67
...	57	38	58
...	45	77	59
...	42	47	74
...	25	48	74
...	27	34
...	41	31	54
...	16	38	57
...	19	24	58
...	29	21	47
...	13	9	58
...	9	28	38
...	23	20	48

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graph TD
    A[Universal Screening baseline data for all students] --> B[Intervention Plans detail accountability]
    B --> C[Progress Monitoring comparative analysis]
    
```

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Universal Screening

- **Development of Universal data norms**
 - Classroom
 - Grade level
 - School
 - District
- **Universal data taken three times per year**
 - Fall
 - Winter
 - Spring

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Universal Screening

- Data from screening must be available to teachers, principals, and district staff and shared with parents.
- Data must be "user friendly" in format.

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Core Curriculum Support Rtl

(Evaluate trends based upon Universal Screening data)

- Composition of Team for Problem Solving
 - Principal must lead
 - Staff familiar with curriculum and standards
 - Someone who can analyze and understand data
 - Grade level teachers (by grade if necessary)

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CBM = Improvement in RATE

Fluency and automaticity are measured by **rate** (how fast it can be performed). Rate increases gradually as proficiency develops - which means it is measured over time.

Improvement in rate is the measure of progress (slope of improvement or rate of improvement)

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Applications of CBM data

- School-wide progress monitoring
- Identifying struggling learners (RTI)
- Evaluating classroom variables
- Increasing instructional effectiveness
- Contrasting different subgroups
- Evaluating strategic intervention effectiveness

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Data: Progress Monitoring

How do we know our intervention is working?

- Data collected is a record of the assessment procedure needed for applying the decision rule:
 - Must record:
 - how the monitoring is to be done
 - By whom is it going to be Done *and*
 - The rules will be used to determine how to proceed with the selected intervention components

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Review the Results

- Analyze, and reflect upon results
- Data outcomes of the interventions is critical and the ultimate criteria of success :
 - Team problem solving
 - Student academic growth

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Analyze the Results

- Elements necessary to determine effectiveness:
 - Team considers the available monitoring data relative to the goal to determine the rate of growth.
 - Team records the effects of intervention as measured
 - Team uses decision points: to continue, change, stop or make other decisions relative to the intervention and results.

Keep all decisions focused on the data!

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Analyze the Results

- Elements necessary to determine effectiveness:
 - Team makes decisions to continue, change, stop or make other decisions relative to the intervention and results. All decisions are data-driven and guided by the needs of the student as well as the capacities and resources of the setting.

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DATA COLLECTION AND INTERPRETATION

KEY FACTORS

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Core Standards of Technical Adequacy




- Progress Monitoring Standards:
 - Sufficient number of alternate forms
 - Sensitivity to learning
 - Evidence of instructional utility
 - Specification of adequate growth
 - Description of benchmarks for adequate end-of-year performance or goal-setting process

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Core Standards of Technical Adequacy




- Choosing Instrument
- Staff Development
- Standardization
- Use of Norms
- Decision Making
- Communication of Results

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Reading CBM's




- Kindergarten
 - Letter Sound Fluency or Phoneme Segmentation Fluency
- Grade 1
 - Word Identification Fluency
- Grades 2-3
 - Passage Reading Fluency
- Grades 4-8
 - Maze Fluency
- Grade 9-10
- Content vocabulary

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READING RATE = COMPREHENSION



- Reading connected text rapidly and accurately plays a crucial role in a student's ability to comprehend.

Rapid word recognition frees up cognitive resources for higher-level comprehension processes (Fuchs et al., 2001)

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CBM Maze Fluency

- Grade Levels 2-8
- Group administration
- Students read passage and circle correct word for each blank
- Time is 2.5 minutes
- Tests graded at later time

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Math CBM's

- Kindergarten and first grade:
 - Quantity Array
 - Number Identification
 - Quantity Discrimination
 - Missing Number
- Grades 1-8:
 - Computation
- Grades 2-9:
 - Concepts and Applications

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OUTCOME GOALS

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Select Data Decision Points

- Develop cut-scores
- Determine norms for comparison
- Discuss Slope of Improvement (RtI response slope)

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Charting Results




- Set up progress-monitoring graph
- Label academic behavior being measured on vertical axis (e.g., correct wpm) and numbers
- Choose number of instruction weeks for graphing and label and list on horizontal axis

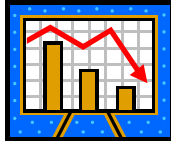
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Charting Baseline Data




- Chart data-points from 3 initial probes
- Graph median score



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Charting an Aimline



- Place calculated performance goal on CBM chart
 - Mark goal with 'X' on last instructional week of monitoring
- Draw line connecting baseline (median score) to performance goal (objective)

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DECISION RULES/ INTERPRETATION

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Evaluating Progress: Informal Indicators

- Degree of change in "level" of data-points
- Variability of data-points
- Overlap of data-points

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Decide on a Data Decision Rule

A decision rule is the systematic procedure by which patterns of data are analyzed. This data analysis assists in making a decision about the effectiveness of an intervention.

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Rules for Making Decisions

Option I: 3 Data Point

- Decision is made when 3 *consecutive data points fall* above or below the aimline (must have minimum 6 pts).

Option II: Trend Line Analysis

- Decision is made after 9 data points which results in a *trendline* to compare to the *aimline*.

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Things to Consider in Choosing a Decision Rule


- Focus on the question: "will the student reach his/her goal by the end of the goal period?"
- Decide to change an intervention whenever the rate of progress falls below the expectation.
- Think of changes in instruction as fine tuning rather than major reconstruction of lessons.

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Evaluating Progress: Formal Indicators

- 3 data-point decision-rule
 - If student's score falls below or above plotted aim-line in 3 consecutive measurements, change instructional intervention

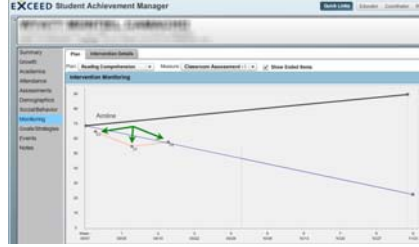


3 data points above line, adjust aim-line upward or change material to higher level

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3 Data-Point Decision Rule


- 3 consecutive points below aim-line, change intervention to boost learning



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3 Data-Point Decision Rule

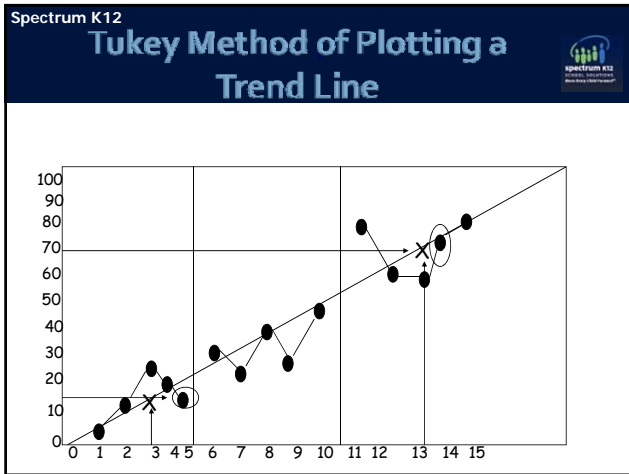
- If 3 consecutive data points around aim-line, no changes made



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Tukey Method

- Graphed scores are divided into 3 fairly equal groups
- Two vertical lines drawn between groups
- In the 1st and 3rd groups:
 - Find median data point
 - Mark with "X"
 - Draw a line between 1st and 3rd group "X" (known as the trend line)




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- ### Common Errors
- ✓ Focusing on administering and collecting Assessment data rather than using the data to inform instruction
 - ✓ Confusing awareness training with “how to” training
 - ✓ Underestimating the magnitude of change
 - ✓ Taking on too much at initial scale-up
 - ✓ Beginning without a district plan
 - ✓ Failure to view Rit as a system-wide Change
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- ### Issues and Perceived Barriers
- Disparate knowledge and skills
 - Lack of clarity about characteristics of the problem solving process
 - Limited fidelity of assessment practices
 - Gaps in leadership’s ability to make change (reciprocal accountability)
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- ### Issues and Perceived Barriers
- Conflicting beliefs and values
 - Misaligned policies
 - Insufficient funding
 - Limited family involvement
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Questions?



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Website Dr. Ogonosky

Andrea Ogonosky
Response to Intervention

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OgonoskyRTI.c

"Enriching the lives of children."



<http://www.ogonoskyrti.com/index.html>

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SK12 Resources

- [Spectrum K12/CASE Response to Intervention Survey](#)
- [SK12 Blog](#)
- [EXCEED RTI](#)
- [Upcoming Webinars](#)
- [Full webinar description](#)
- **Pre-School RTI: Closing the Achievement Gap Before Kindergarten**
Presented by AppleTree Institute for Education Innovation

Director of Education, Mary Anne Lesiak, Director Early Reading First Project, Lydia Carlis, & Education Coach, Kelly Trygstad

Wednesday, February 23, 11:00 am EST

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Thank You!


Contact Information

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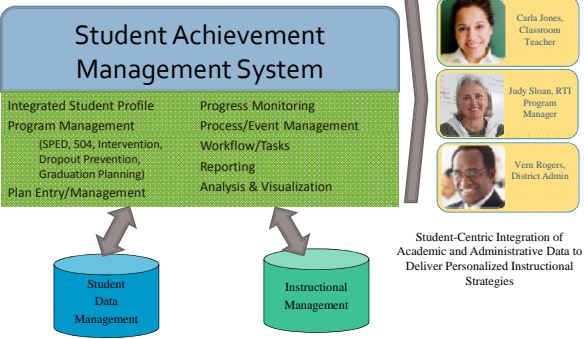
District Management Systems

Business Management System	Student Data Management System	Instructional Management System
<ul style="list-style-type: none"> • HR • Finance • Transportation • Food Services • Procure/Supply 	<ul style="list-style-type: none"> • SIS • Attendance • Grade Reporting • Scheduling • Special Education Management System 	<ul style="list-style-type: none"> • Assessment Management • Curriculum Management • Learning Management • Library Management

Source: Eduventures

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EXCEED Student Achievement Management, (SAM)



Student Achievement Management System

- Integrated Student Profile
- Program Management (SPED, 504, Intervention, Dropout Prevention, Graduation Planning)
- Plan Entry/Management
- Progress Monitoring
- Process/Event Management
- Workflow/Tasks
- Reporting
- Analysis & Visualization

Student-Centric Integration of Academic and Administrative Data to Deliver Personalized Instructional Strategies

Carla Jones, Classroom Teacher
 Judy Sloan, RTI Program Manager
 Vern Rogers, District Admin

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EXCEED

- ...is an integrated, student-centric student achievement management platform allowing teachers to drive day-to-day activities, research based interventions and outcomes to help all students achieve success.
- ...monitors academic and behavioral progress, displays efficacy and fidelity, and surfaces achievement gaps at the student, class, grade, group or district level.

