

## Integrating Tiered Data Based Decision Making to Address Essential Questions in an RTI Process:

### Progress Monitoring Essentials



Seth Aldrich, Ph.D.  
 NYS TAC Consortium Member  
 NY State Licensed Psychologist  
 Bilingual School Psychologist

## Today we will cover:

- Essential qualities and characteristics of progress monitoring measures
- Documenting instruction /interventions
- Matching general outcome measures to intervention
- Setting realistic and ambitious goals including use of rate of improvement (ROI) norm tables
- Social, Emotional, Behavioral (SEB) progress monitoring

*Planning, Coordination, Communication, Responding*

Polls

Demographics (roles, grades)

DBDM: Progress Monitoring - Seth Aldrich Ph.D 2

DBDM: Progress Monitoring - Seth Aldrich Ph.D 3

### Differentiation/Intervention/Assessment – 3 Tiers Behavioral Academic

**Tier 3:** Intensive social, emotional and/or behavioral intervention such as: **Individual/crisis counseling, alternate setting for breaks, BIP based on FBA, community based intervention, medical intervention.** Evaluation (formative as well as diagnostic) may be warranted to target intervention

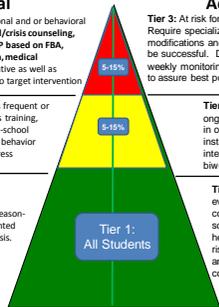
**Tier 3:** At risk for life long academic difficulties. Require specialized instruction, supports, modifications and accommodations in order to be successful. Daily intensive intervention, weekly monitoring and 'diagnostic' assessment to assure best possible progress.

**Tier 2:** Individual (perhaps less frequent or as needed) group counseling/skills training, self monitoring, frequent home-school communication and systematic behavior plans may be necessary to address problem(s).

**Tier 2:** May need temporary or ongoing support and differentiation in order to succeed in core instruction. Small group intervention with weekly or biweekly progress monitoring

**Tier 1:** Effective classroom management including good instructional match and clear, reasonable expectations are implemented on a school-wide/class-wide basis. Positive interactions/acknowledgements teach prosocial behaviors and build respectful relationships

**Tier 1:** All students receive evidence-based, differentiated core instruction. Universal screening 3+ times per year helps to identify students most at risk to prioritize for intervention and to evaluate effectiveness of core instruction



DBDM: Progress Monitoring - Seth Aldrich Ph.D

4

### Tiered Problem Solving

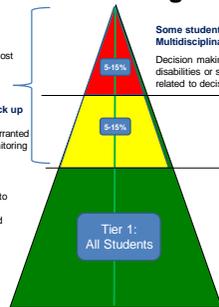
**Individualized problem solving meetings** for most intense and/or complex problems

**Some students may need Multidisciplinary Team meetings (MDT)**  
 Decision making concerning students with disabilities or suspected disabilities often related to decisions made at CSE.

**Progress Monitor Check up Meetings** to change interventions if when warranted (based on progress monitoring data)

**Post benchmark data meetings** for all students to evaluate programs/overall school/grade level risk and assures differentiated instruction and positive behavioral supports

**Informal discussion with colleagues**



DBDM: Progress Monitoring - Seth Aldrich Ph.D

5

### DBDM is part of the RTI problem solving process and addresses the following questions

- What do the students know? (What are their needs and what do we need to teach?)
- Are programs in our school effective in meeting student needs? (Are there certain groups whose needs are not being addressed?)
- Who are the students who we prioritize for additional supports?
- Is the student making progress (Do I stay the course or make an instructional adjustment)?
- What do we need to do to improve our educational system for all students? (e.g., materials, scheduling, professional development)

*Data needs to be organized and communicated effectively with key audiences*

DBDM: Progress Monitoring - Seth Aldrich Ph.D

6

## Response to Intervention (RTI)

A tiered problem solving process in schools might be:

Informal consultation with colleagues (All tiers)

Progress Monitoring

Post Benchmark Data Meetings (All tiers September, January and May/June, but focus primarily on tiers 2 and 3 in January and May/June)

Checkup Data Meetings (efficient and responsive) (Tier 2 and 3 at about the October 10 week and March 30 week points)

Effective problem solving team meetings to identify and understand more complex problems for individual students. Plan and evaluate interventions (typically Tiers 2b and 3)

Multidisciplinary Team (MDT) meetings – CSE decision making (Initial reviews, re-evaluation review planning)

District/School RTI team meetings - Make decisions concerning resources, decision making and infrastructure

7

## Intervention Planning

How much would a district pay for a Tier 2 intervention that worked for every single student?

“Why don’t they make the plane out of that black box stuff???” - Steven Wright

DBDM: Progress Monitoring - Seth Aldrich Ph.D

8

## Advanced and Ongoing Preparation for the Post-benchmark Meeting (Fall, Winter, Spring)



School/District RTI Team with input from grade level staff complete this intervention resource inventory and update continuously

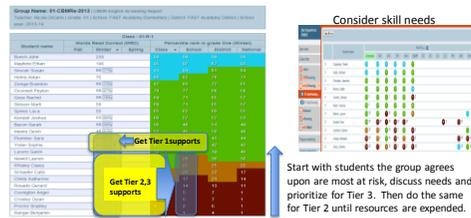
Intervention Name	Grade(s) used	Skill(s) addressed	Source of evidence	Needed supports (training, staff)	Time per day needed	Days per week	Group size	How fidelity is assessed

DBDM: Progress Monitoring - Seth Aldrich Ph.D

9

### Step 3 Plan and Assign students to targeted, tiered intervention (Tier 3, Tier 2)

When assigning students to tiered interventions, it is essential to know what skill the intervention will target to assure the real needs of the student are being addressed. Identifying the skill address by the intervention is also essential when identifying a general outcome measure to monitor progress



DBDM: Progress Monitoring - Seth Aldrich Ph.D

10

### Qualities of Academic Progress Monitoring

- Strong psychometric properties (reliable, valid)
  - Used as a part of high stakes decisions such as Tier 3, IEPs, LD eligibility
- Sensitive to progress over short periods of time (e.g., 8 weeks)
- Multiple equated forms (field tested not just based on readability)
- Independence from a specific curriculum (GOM)
- Measure important things (predict functional skills)
- Monitor what is being instructed (intervention)
- Easy to administer frequently, consistently, with fidelity (Feasible for weekly data gathering)
- Goals (what it mean if student meets them) should be understandable

### 2 Poll

- 2. RTI progress monitoring tool used in your school:
  - STAR
  - AIMSweb
  - DIBELS
  - FastBridge
  - iReady
  - iStation
  - Fountas and Pinnell
  - DRA
  - District created measures
  - Other
  - None

DBDM: Progress Monitoring - Seth Aldrich Ph.D

12

Some Tools Used for Progress Monitoring (Literacy)

Tool	CAT or CBM	Math?	Behavior?
AIMSweb	CBM	Yes	Yes
STAR	CAT	Yes	No
DIBELS	CBM	Yes	No
FastBridge	CBM and CAT	Yes	Yes
Easy CBM	CBM	Yes	No
iReady	CAT	Yes	No

Does it make sense to have the same tool for both universal screening and progress monitoring?

Computer Adaptive Tests (CATs)

- Good assessment of broad skills
- Can assess more applied skills (e.g., Vocabulary, Comprehension, Math applications)
- Very feasible for teachers (group assessment not 1:1)
- Less sensitive to improvement
- Take about 30 minutes to assess.
- Significant time out of instruction if conducted weekly

Curriculum Based Measures (CBMs)

- Good assessment of specific skills
- Good general outcome measure for improving foundation skills
- Brief (1-2 minutes) feasible for weekly assessment
- Sensitive to improvement
- Multiple forms
- Well researched
- ... but do not directly measure constructs like comprehension and vocabulary -especially important in older grade levels

DBDM: Progress Monitoring - Seth Aldrich Ph.D

13

http://www.intensiveintervention.org/resources/tools-charts

DBDM: Progress Monitoring - Seth Aldrich Ph.D

14

www.intensiveintervention.org/resources/tools-charts

Tool	Title	Area	Grade	Reliability of Individual Level Score	Reliability of Score	Reliability of Individual Level Score	Predictive Validity of Score of Intervention	Days of Administration	Days of Administration	Days of Administration
1	1-Reading Diagnostic for Mathematics	Mathematics	1	●	●	●	●	Yes	Yes	Yes
2	2-Reading Diagnostic for Mathematics	Mathematics	2	●	●	●	●	Yes	Yes	Yes
3	3-Reading Diagnostic for Mathematics	Mathematics	3	●	●	●	●	Yes	Yes	Yes
4	4-Reading Diagnostic for Mathematics	Mathematics	4	●	●	●	●	Yes	Yes	Yes
5	5-Reading Diagnostic for Mathematics	Mathematics	5	●	●	●	●	Yes	Yes	Yes
6	6-Reading Diagnostic for Mathematics	Mathematics	6	●	●	●	●	Yes	Yes	Yes
7	7-Reading Diagnostic for Mathematics	Mathematics	7	●	●	●	●	Yes	Yes	Yes
8	8-Reading Diagnostic for Mathematics	Mathematics	8	●	●	●	●	Yes	Yes	Yes
9	9-Reading Diagnostic for Mathematics	Mathematics	9	●	●	●	●	Yes	Yes	Yes
10	10-Reading Diagnostic for Mathematics	Mathematics	10	●	●	●	●	Yes	Yes	Yes
11	11-Reading Diagnostic for Mathematics	Mathematics	11	●	●	●	●	Yes	Yes	Yes
12	12-Reading Diagnostic for Mathematics	Mathematics	12	●	●	●	●	Yes	Yes	Yes
13	13-Reading Diagnostic for Mathematics	Mathematics	13	●	●	●	●	Yes	Yes	Yes
14	14-Reading Diagnostic for Mathematics	Mathematics	14	●	●	●	●	Yes	Yes	Yes
15	15-Reading Diagnostic for Mathematics	Mathematics	15	●	●	●	●	Yes	Yes	Yes
16	16-Reading Diagnostic for Mathematics	Mathematics	16	●	●	●	●	Yes	Yes	Yes
17	17-Reading Diagnostic for Mathematics	Mathematics	17	●	●	●	●	Yes	Yes	Yes
18	18-Reading Diagnostic for Mathematics	Mathematics	18	●	●	●	●	Yes	Yes	Yes
19	19-Reading Diagnostic for Mathematics	Mathematics	19	●	●	●	●	Yes	Yes	Yes
20	20-Reading Diagnostic for Mathematics	Mathematics	20	●	●	●	●	Yes	Yes	Yes
21	21-Reading Diagnostic for Mathematics	Mathematics	21	●	●	●	●	Yes	Yes	Yes
22	22-Reading Diagnostic for Mathematics	Mathematics	22	●	●	●	●	Yes	Yes	Yes
23	23-Reading Diagnostic for Mathematics	Mathematics	23	●	●	●	●	Yes	Yes	Yes
24	24-Reading Diagnostic for Mathematics	Mathematics	24	●	●	●	●	Yes	Yes	Yes
25	25-Reading Diagnostic for Mathematics	Mathematics	25	●	●	●	●	Yes	Yes	Yes
26	26-Reading Diagnostic for Mathematics	Mathematics	26	●	●	●	●	Yes	Yes	Yes
27	27-Reading Diagnostic for Mathematics	Mathematics	27	●	●	●	●	Yes	Yes	Yes
28	28-Reading Diagnostic for Mathematics	Mathematics	28	●	●	●	●	Yes	Yes	Yes
29	29-Reading Diagnostic for Mathematics	Mathematics	29	●	●	●	●	Yes	Yes	Yes
30	30-Reading Diagnostic for Mathematics	Mathematics	30	●	●	●	●	Yes	Yes	Yes
31	31-Reading Diagnostic for Mathematics	Mathematics	31	●	●	●	●	Yes	Yes	Yes
32	32-Reading Diagnostic for Mathematics	Mathematics	32	●	●	●	●	Yes	Yes	Yes
33	33-Reading Diagnostic for Mathematics	Mathematics	33	●	●	●	●	Yes	Yes	Yes
34	34-Reading Diagnostic for Mathematics	Mathematics	34	●	●	●	●	Yes	Yes	Yes
35	35-Reading Diagnostic for Mathematics	Mathematics	35	●	●	●	●	Yes	Yes	Yes
36	36-Reading Diagnostic for Mathematics	Mathematics	36	●	●	●	●	Yes	Yes	Yes
37	37-Reading Diagnostic for Mathematics	Mathematics	37	●	●	●	●	Yes	Yes	Yes
38	38-Reading Diagnostic for Mathematics	Mathematics	38	●	●	●	●	Yes	Yes	Yes
39	39-Reading Diagnostic for Mathematics	Mathematics	39	●	●	●	●	Yes	Yes	Yes
40	40-Reading Diagnostic for Mathematics	Mathematics	40	●	●	●	●	Yes	Yes	Yes
41	41-Reading Diagnostic for Mathematics	Mathematics	41	●	●	●	●	Yes	Yes	Yes
42	42-Reading Diagnostic for Mathematics	Mathematics	42	●	●	●	●	Yes	Yes	Yes
43	43-Reading Diagnostic for Mathematics	Mathematics	43	●	●	●	●	Yes	Yes	Yes
44	44-Reading Diagnostic for Mathematics	Mathematics	44	●	●	●	●	Yes	Yes	Yes
45	45-Reading Diagnostic for Mathematics	Mathematics	45	●	●	●	●	Yes	Yes	Yes
46	46-Reading Diagnostic for Mathematics	Mathematics	46	●	●	●	●	Yes	Yes	Yes
47	47-Reading Diagnostic for Mathematics	Mathematics	47	●	●	●	●	Yes	Yes	Yes
48	48-Reading Diagnostic for Mathematics	Mathematics	48	●	●	●	●	Yes	Yes	Yes
49	49-Reading Diagnostic for Mathematics	Mathematics	49	●	●	●	●	Yes	Yes	Yes
50	50-Reading Diagnostic for Mathematics	Mathematics	50	●	●	●	●	Yes	Yes	Yes
51	51-Reading Diagnostic for Mathematics	Mathematics	51	●	●	●	●	Yes	Yes	Yes
52	52-Reading Diagnostic for Mathematics	Mathematics	52	●	●	●	●	Yes	Yes	Yes
53	53-Reading Diagnostic for Mathematics	Mathematics	53	●	●	●	●	Yes	Yes	Yes
54	54-Reading Diagnostic for Mathematics	Mathematics	54	●	●	●	●	Yes	Yes	Yes
55	55-Reading Diagnostic for Mathematics	Mathematics	55	●	●	●	●	Yes	Yes	Yes
56	56-Reading Diagnostic for Mathematics	Mathematics	56	●	●	●	●	Yes	Yes	Yes
57	57-Reading Diagnostic for Mathematics	Mathematics	57	●	●	●	●	Yes	Yes	Yes
58	58-Reading Diagnostic for Mathematics	Mathematics	58	●	●	●	●	Yes	Yes	Yes
59	59-Reading Diagnostic for Mathematics	Mathematics	59	●	●	●	●	Yes	Yes	Yes
60	60-Reading Diagnostic for Mathematics	Mathematics	60	●	●	●	●	Yes	Yes	Yes
61	61-Reading Diagnostic for Mathematics	Mathematics	61	●	●	●	●	Yes	Yes	Yes
62	62-Reading Diagnostic for Mathematics	Mathematics	62	●	●	●	●	Yes	Yes	Yes
63	63-Reading Diagnostic for Mathematics	Mathematics	63	●	●	●	●	Yes	Yes	Yes
64	64-Reading Diagnostic for Mathematics	Mathematics	64	●	●	●	●	Yes	Yes	Yes
65	65-Reading Diagnostic for Mathematics	Mathematics	65	●	●	●	●	Yes	Yes	Yes
66	66-Reading Diagnostic for Mathematics	Mathematics	66	●	●	●	●	Yes	Yes	Yes
67	67-Reading Diagnostic for Mathematics	Mathematics	67	●	●	●	●	Yes	Yes	Yes
68	68-Reading Diagnostic for Mathematics	Mathematics	68	●	●	●	●	Yes	Yes	Yes
69	69-Reading Diagnostic for Mathematics	Mathematics	69	●	●	●	●	Yes	Yes	Yes
70	70-Reading Diagnostic for Mathematics	Mathematics	70	●	●	●	●	Yes	Yes	Yes
71	71-Reading Diagnostic for Mathematics	Mathematics	71	●	●	●	●	Yes	Yes	Yes
72	72-Reading Diagnostic for Mathematics	Mathematics	72	●	●	●	●	Yes	Yes	Yes
73	73-Reading Diagnostic for Mathematics	Mathematics	73	●	●	●	●	Yes	Yes	Yes
74	74-Reading Diagnostic for Mathematics	Mathematics	74	●	●	●	●	Yes	Yes	Yes
75	75-Reading Diagnostic for Mathematics	Mathematics	75	●	●	●	●	Yes	Yes	Yes
76	76-Reading Diagnostic for Mathematics	Mathematics	76	●	●	●	●	Yes	Yes	Yes
77	77-Reading Diagnostic for Mathematics	Mathematics	77	●	●	●	●	Yes	Yes	Yes
78	78-Reading Diagnostic for Mathematics	Mathematics	78	●	●	●	●	Yes	Yes	Yes
79	79-Reading Diagnostic for Mathematics	Mathematics	79	●	●	●	●	Yes	Yes	Yes
80	80-Reading Diagnostic for Mathematics	Mathematics	80	●	●	●	●	Yes	Yes	Yes
81	81-Reading Diagnostic for Mathematics	Mathematics	81	●	●	●	●	Yes	Yes	Yes
82	82-Reading Diagnostic for Mathematics	Mathematics	82	●	●	●	●	Yes	Yes	Yes
83	83-Reading Diagnostic for Mathematics	Mathematics	83	●	●	●	●	Yes	Yes	Yes
84	84-Reading Diagnostic for Mathematics	Mathematics	84	●	●	●	●	Yes	Yes	Yes
85	85-Reading Diagnostic for Mathematics	Mathematics	85	●	●	●	●	Yes	Yes	Yes
86	86-Reading Diagnostic for Mathematics	Mathematics	86	●	●	●	●	Yes	Yes	Yes
87	87-Reading Diagnostic for Mathematics	Mathematics	87	●	●	●	●	Yes	Yes	Yes
88	88-Reading Diagnostic for Mathematics	Mathematics	88	●	●	●	●	Yes	Yes	Yes
89	89-Reading Diagnostic for Mathematics	Mathematics	89	●	●	●	●	Yes	Yes	Yes
90	90-Reading Diagnostic for Mathematics	Mathematics	90	●	●	●	●	Yes	Yes	Yes
91	91-Reading Diagnostic for Mathematics	Mathematics	91	●	●	●	●	Yes	Yes	Yes
92	92-Reading Diagnostic for Mathematics	Mathematics	92	●	●	●	●	Yes	Yes	Yes
93	93-Reading Diagnostic for Mathematics	Mathematics	93	●	●	●	●	Yes	Yes	Yes
94	94-Reading Diagnostic for Mathematics	Mathematics	94	●	●	●	●	Yes	Yes	Yes
95	95-Reading Diagnostic for Mathematics	Mathematics	95	●	●	●	●	Yes	Yes	Yes
96	96-Reading Diagnostic for Mathematics	Mathematics	96	●	●	●	●	Yes	Yes	Yes
97	97-Reading Diagnostic for Mathematics	Mathematics	97	●	●	●	●	Yes	Yes	Yes
98	98-Reading Diagnostic for Mathematics	Mathematics	98	●	●	●	●	Yes	Yes	Yes
99	99-Reading Diagnostic for Mathematics	Mathematics	99	●	●	●	●	Yes	Yes	Yes
100	100-Reading Diagnostic for Mathematics	Mathematics	100	●	●	●	●	Yes	Yes	Yes

DBDM: Progress Monitoring - Seth Aldrich Ph.D

18

www.intensiveintervention.org/resources/tools-charts

Tool	Title	Area	Grade	Reliability of Individual Level Score	Reliability of Score	Reliability of Individual Level Score	Predictive Validity of Score of Intervention	Days of Administration	Days of Administration	Days of Administration
1	1-Reading Diagnostic for Mathematics	Mathematics	1	●	●	●	●	Yes	Yes	Yes
2	2-Reading Diagnostic for Mathematics	Mathematics	2	●	●	●	●	Yes	Yes	Yes
3	3-Reading Diagnostic for Mathematics	Mathematics	3	●	●	●	●	Yes	Yes	Yes
4	4-Reading Diagnostic for Mathematics	Mathematics	4	●	●	●	●	Yes	Yes	Yes
5	5-Reading Diagnostic for Mathematics	Mathematics	5	●	●	●	●	Yes	Yes	Yes
6	6-Reading Diagnostic for Mathematics	Mathematics	6	●	●	●	●	Yes	Yes	Yes
7	7-Reading Diagnostic for Mathematics	Mathematics	7	●	●	●	●	Yes	Yes	Yes
8	8-Reading Diagnostic for Mathematics	Mathematics	8	●	●	●	●	Yes	Yes	Yes
9	9-Reading Diagnostic for Mathematics	Mathematics	9	●	●	●	●	Yes	Yes	Yes
10	10-Reading Diagnostic for Mathematics	Mathematics	10	●	●	●	●	Yes	Yes	Yes
11	11-Reading Diagnostic for Mathematics	Mathematics	11	●	●	●	●	Yes	Yes	Yes
12	12-Reading Diagnostic for Mathematics	Mathematics	12	●	●	●	●	Yes	Yes	Yes
13	13-Reading Diagnostic for Mathematics	Mathematics	13	●	●	●	●	Yes	Yes	Yes
14	14-Reading Diagnostic for Mathematics	Mathematics	14	●	●	●	●	Yes	Yes	Yes
15	15-Reading Diagnostic for Mathematics	Mathematics	15	●	●	●	●	Yes	Yes	Yes
16	16-Reading Diagnostic for Mathematics	Mathematics	16	●	●	●	●	Yes	Yes	Yes
17										

**Step 3 Plan and assign students to targeted, tiered intervention (Tier 3, Tier 2)**  
**Document interventions in database.**

- Who:** List who is involved in literacy instruction and intervention. This helps us to document that tiered interventions are provided by qualified staff (a core requirement of RTI).
- Describe or name intervention:** Please describe core instruction and how it is differentiated for struggling students. If you use an evidence based intervention it will have a name and can be replicated, you only need to name it as long as it is implemented as intended. Example evidence based "programmed" interventions might include: "Read Naturally," "Fundations" or "Wilson," or Repeated Reading. You may also be implementing behavior interventions for some students that could be documented in the "what".
- Where does it occur:** Tiered interventions can be delivered in or out of the classroom.
- When during the day:** The important part of when is that supplemental tiered interventions are not part of the 90 minutes of core instruction recommended. If because of scheduling they occur during the 90 minute block, indicate how core instruction time is made up at other times during the day.
- Why the intervention was chosen:** Describe why the tiered intervention(s) or supplemental strategies within core instruction were chosen. For example: Does the student have weaknesses in phonics and the strategy/intervention is proven to be effective for improving phonics skills? Information from diagnostic assessments might be used to target intervention and or supplemental/differentiated instruction in the core.
- Frequency:** Tier 2 might be 3-5 days per week, Tier 3 would typically be 5 days per week
- Time spent during the day:** Tier 2 would be 20 to 30 minutes of supplemental instruction beyond 90 minutes of core instruction, Tier 3 interventions would be 20 minutes, 10 minutes, one hour, during 1st period, etc.
- Other information:** In addition to literacy instruction and intervention, other intervention such as a behavior plan may be described as it is relevant to the student's engagement and participation in instruction.

**Step 3 Plan and assign students to targeted, tiered intervention (Tier 3, Tier 2)**

**Example:**

Weak phonics skills impact Will's reading fluency (and therefore comprehension). Both phonics and fluency were targeted for intervention. Core instruction includes 90 minutes of \_\_\_\_\_ at level \_\_\_\_\_. In addition, Will participates in a tier 3 reading group that includes the following interventions: - \_\_\_\_\_ for 30 minutes daily (3:1 ratio). A teacher assistant works with Will and 4 other students, additionally, 3 days per week in the classroom using \_\_\_\_\_ for (e.g., fluency). Both Will's classroom and reading teacher are using \_\_\_\_\_ to help Will improve reading comprehension. Will has a daily teacher behavior report card that reinforces careful work completion and appropriate/active participation during lessons.

Some interventions that impact students might have to be documented discreetly

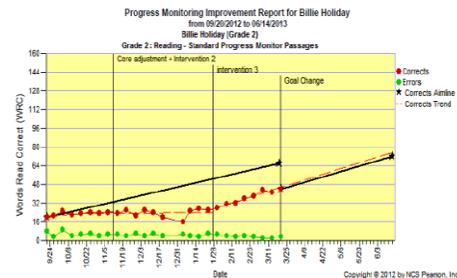
Event	How it might be documented in progress monitoring
John began wearing glasses on 2/15/15	John began wearing glasses on 2/15/15
Susan began wearing a hearing aid on 2/12/15	Susan began wearing a hearing aid on 2/12/15
Will's attendance improved with attendance plan on 2/12/15	Will's attendance improved with attendance plan on 2/12/15
Sam began to participate in lessons and was much less oppositional and aggressive with his behavior plan 2/12/15.	Sam's behavior plan successfully implemented (2/12/15) and helped to improve participation. (Please refer to confidential file)
John was diagnosed as having ADHD and began taking prescribed Ritalin 10mg on 2/12/15. Medication stopped on 2/28/15	Medical intervention 2/12/15. Medical change 2/28/15 (Please refer to confidential file).
Julie was removed from her home due to abuse and placed into therapeutic foster care with weekly counseling on 2/12/15	Significant stressor and community-based intervention 2/12/15 (Please refer to confidential file)
Daniel's father was severely injured in an automobile accident on 2/12/15 requiring long term hospitalization. He had a significant emotional reaction to this over several weeks.	Significant stressor on 2/12/15

**Data Meeting Step 5 Identify progress monitoring logistics: Identify the students, measure and frequency**

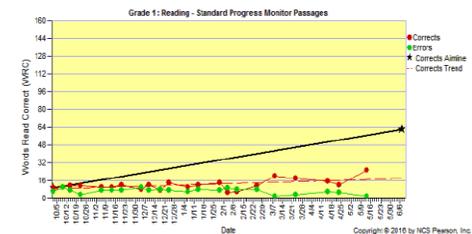
Determine students who will have regular (e.g., weekly, bi-weekly) progress monitoring, which skills need to be assessed, and develop realistic but ambitious catch up goals aligned to need/intervention(s).

Student Name	Need (as determined by all available assessments)	Intervention* (including strategies for core instruction)	Identify any barriers that need to be addressed for intervention to be implemented effectively	Progress monitor Name of assessment (e.g., NWF, RCBM), frequency

Interpreting and using CBM Reading data



Avoid this



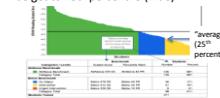
**Progress monitoring logistics:  
Set ambitious but realistic goals**

- **Norm referenced** - Can the student meet grade level expectations similar to peers?
- **Criterion referenced** - Can the student meet a criteria e.g., low risk for failing a state test?
- **Rate of Improvement** - Can the student make reasonable but ambitious catch up growth?
- **Intra-Individual Framework** – Can the student make reasonable growth based on his or her unique learning needs?

**Identify Progress Monitoring Logistics:  
Set Goals**



STAR Example: Green is 40<sup>th</sup> percentile (low risk). Norm referenced goal might be get to 25<sup>th</sup> percentile (Blue)



**Norm referenced goal: e.g.,**  
Aim for the local or national 25<sup>th</sup> percentile

**Advantages**

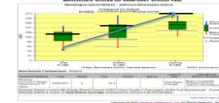
- Classroom instruction targeted to 'middle' will be appropriate. (Student will require less differentiation).
- Student will feel competent when engaged in classroom activities.
- Student should be better able to keep up with classmates.

**Disadvantages**

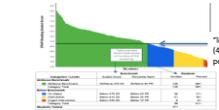
- Rates may be too ambitious (not achievable)
- 25<sup>th</sup> percentile is not enough to be 'proficient.'

**Progress Monitoring: Set Goals**

AIMSweb Example: Hit the bar



STAR Example: Green is 40<sup>th</sup> percentile (low risk).



**Criterion referenced goal:** Aim for a level of performance that predicts success (e.g., getting a level 3 on the NY state test).

**Advantages**

- Proficiency goals are meaningful in that they predict success (not just being 'average' compared to a norm group)

**Disadvantages**

- For some students going from 10<sup>th</sup> percentile to 45<sup>th</sup> percentile may be ambitious (very) but not realistic. An overly ambitious goal could result in unwarranted intervention changes or special education referrals

**Step 5 Progress Monitoring Logistics :  
Set Goals**

**Rate of Improvement goal:** Aim for the student to 'catch up' by exceeding the rate of improvement of typical students.

**Advantages**

- It can be applied to most students regardless of their current skill level. The student may not catch up this year but will eventually if they maintain the accelerated rate.
- ROI is the metric discussed when considering intervention change and is the metric considered for 'expected growth' when determining dual discrepancy.
- Current ROI can be calculated and used for decision making at any time of the year (as opposed to an end of year goal)

**Disadvantages**

- It may take more than one year for the student to reach proficiency

**Step 5 Progress Monitoring Logistics :  
Set Goals**

**Rate of Improvement (ROI) Goals**

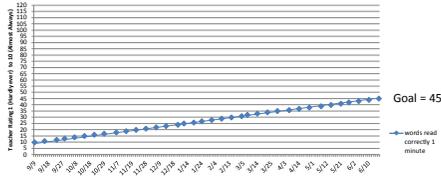
- Students receiving 90 minutes of differentiated, scientifically-based core instruction with 30-60 minutes of targeted evidence-based intervention should achieve a 'catch up rate.'
- AIMSweb and FastBridge have percentiles associated with rates of improvement (ROI) for their measures. A 75<sup>th</sup> percentile growth rate is achievable (with good core instruction and intervention) and considered a 'catch up rate.'
- Not all PM tools calculate ROI

**Understanding ROI**

- Billy, a 2<sup>nd</sup> grader, takes a fall universal screening on September 18 and earns a median score of 10 words read correct (WRC) in 1 minute. (4<sup>th</sup> percentile for fall 2nd grade)
- We set a goal for Billy with a progress monitoring schedule ending June 16. That is about 35 instructional weeks from September 18.
- If Billy improves by one word per week, he'll improved by 35 words.
- He was already reading 10 words read correctly per minute, so we simply add 35 + 10 to get his goal of 45 WRC by June 16.

One word per week growth:  
 Improve by 35 words in 35 weeks  
 $35 + 10 = 45$

Billy's reading progress (1 word per week - inadequate??)

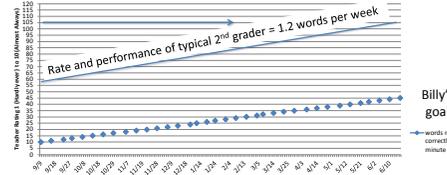


DBDM: Progress Monitoring - Seth Aldrich Ph.D

31

But, the average growth of Billy's peers across the country is  
 1.2 words per week and  $1.2 \times 35 = 42$   
 $42 + 62$  (50<sup>th</sup> percentile 2<sup>nd</sup> grade fall) = 104  
 (They are performing better and making a better ROI!)

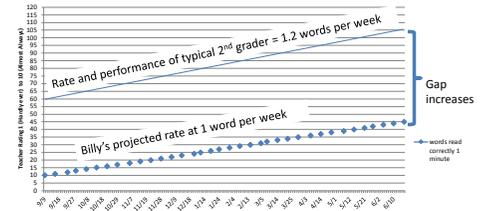
Billy's reading progress (1 word per week - inadequate)



DBDM: Progress Monitoring - Seth Aldrich Ph.D

32

Our goal of only 1 word per week growth sets Billy up to fall further behind!  
 Billy's reading progress goal (1 word per week) is inadequate



DBDM: Progress Monitoring - Seth Aldrich Ph.D

33

### How gaps increase



DBDM: Progress Monitoring - Seth Aldrich Ph.D

34

### Identifying 75<sup>th</sup> percentile ROI based how student performed on Fall benchmark score

75<sup>th</sup> percentile ROI (Fall - Spring) at 2<sup>nd</sup> grade for student whose fall benchmark score is:

**Average 2<sup>nd</sup> Graders** (26<sup>th</sup> - 75<sup>th</sup>): **1.5** words per week improvement

**Low 2<sup>nd</sup> (11<sup>th</sup> - 25<sup>th</sup>):** **1.6** words per week improvement

**Very low 2<sup>nd</sup> graders (1<sup>st</sup> - 10<sup>th</sup>):** **1.35** words per week improvement

#### AIMSweb Example:

Grade	Fall status	ROI %tile	Fall-W	Winter-S	Fall-Spring	95
Average	95	213-247	151-182	151-181	95	95
	85	192-229	130-157	130-157	85	85
	75	168-187	150-137	94	65	65
	65	150-167	100-109	100-109	55	55
	55	131-149	97-102	100-103	45	45
Low	95	131-132	140-126	99-109	35	35
	85	109-104	140-130	96-108	25	25
	75	66-69	113-109	97-105	15	15
	65	6-6	5-7	1-6	5	5
	55	2-3	1-4	1-10	5	5
Very Low	95	232-238	154-145	171-161	85	85
	85	222-229	134-133	132-130	75	75
	75	197-204	119-132	149-154	65	65
	65	170-186	104-118	134-140	55	55
	55	152-161	88-100	124-123	45	45

DBDM: Progress Monitoring - Seth Aldrich Ph.D

#### 75<sup>th</sup> percentile ROI (Winter-Spring) at 1<sup>st</sup> grade for student whose fall benchmark score is:

**Average (26<sup>th</sup> - 75<sup>th</sup>):** **2.15** words per week improvement

**Low (11<sup>th</sup> - 25<sup>th</sup>):** **1.5** words per week improvement

**Very low (1<sup>st</sup> - 10<sup>th</sup>):** **1** words per week improvement

Fall status	ROI %tile	F-W	Winter-Spring	(F-S)	95
Average	95	2-2	2-2	95	95
	85	2-3	2-3	85	85
	75	2-3	2-3	75	75
	65	1-3	1-3	65	65
	55	1-3	1-3	55	55
Low	95	1-1	1-1	95	95
	85	1-1	1-1	85	85
	75	1-1	1-1	75	75
	65	1-1	1-1	65	65
	55	1-1	1-1	55	55
Very Low	95	0-0	0-0	95	95
	85	0-0	0-0	85	85
	75	0-0	0-0	75	75
	65	0-0	0-0	65	65
	55	0-0	0-0	55	55

DBDM: Progress Monitoring - Seth Aldrich Ph.D

**FastBridge Example with FastBridge norms**  
 Interestingly, 50<sup>th</sup> and 75<sup>th</sup> percentile growth for 2<sup>nd</sup> graders using 2 different probe sets, two different norm samples is very similar!  
 1.3 – 1.4 – 50<sup>th</sup> percentile growth  
 1.6 words per week = 75<sup>th</sup> percentile

Nile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
95th	123	146	162	1.49	1.32	1.50	2.66	2.19	2.62	1.14	0.80	1.23
90th	113	138	152	1.59	1.58	1.59	2.44	1.98	1.89	0.73	0.79	0.45
85th	104	131	145	1.64	1.58	1.62	2.28	1.81	1.79			
80th	97	125	140	1.84	1.52	1.70	2.14	1.67	1.70			
75th	91	119	135	1.84	1.52	1.70	2.03	1.55	1.63			
70th	86	114	130	1.94	1.52	1.76	1.90	1.44	1.56			
65th	81	109	126	1.99	1.58	1.81	1.80	1.34	1.49			
60th	76	105	122	1.94	1.58	1.79	1.70	1.24	1.43			
55th	71	100	117	1.79	1.65	1.73	1.61	1.15	1.37	1.64	1.08	1.36
50th	67	96	113	1.64	1.78	1.70	1.51	1.68	1.37	0.61	0.64	0.36

75<sup>th</sup> percentile growth fall – spring is 1.63 words per week growth

Average growth fall – spring for students scoring in the average range (fall) is 1.36 words per week growth

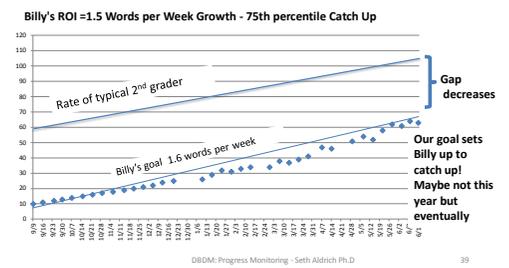
- One word per week might not be strong enough for Billy to catch up so we find a rate of growth that is stronger than the typical student but also realistic.
- A 75th percentile growth rate is somewhere between average (50th percentile) and a rate that few students ever achieve (99th percentile).
- ROI charts are increasingly available to determine percentile growth rates for realistic but ambitious goals.

Nile	Scores (Rate)			Seasonal Score Differences			Weekly Growth			Weekly Growth by Percentile Group		
	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
95th				1.52	1.50	1.50	2.66	2.19	2.62	1.14	0.80	1.23
90th				1.58	1.59	1.59	2.44	1.98	1.89	0.73	0.79	0.45
85th				1.58	1.62	1.62	2.28	1.81	1.79			
80th	97	125	140	1.84	1.52	1.70	2.14	1.67	1.70			
75th				1.52	1.70	1.70	2.03	1.55	1.63			
70th				1.52	1.76	1.76	1.90	1.44	1.56			
65th				1.58	1.81	1.81	1.80	1.34	1.49			
60th				1.58	1.79	1.79	1.70	1.24	1.43			
55th	71	100	117	1.79	1.65	1.73	1.61	1.15	1.37	1.64	1.08	1.36
50th	67	96	113	1.64	1.78	1.70	1.51	1.68	1.37	0.61	0.64	0.36

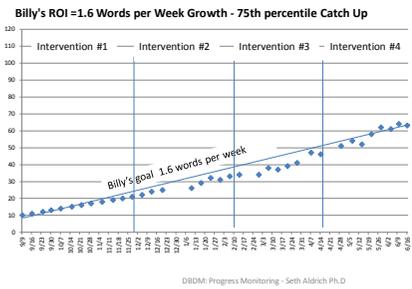
Too ambitious?

Would close the gap

If Billy makes 1.6 words per week growth, he'll improve by 56 words (1.6 x 35) over the course of the year and end up reading 66 words correct (He would go from the fall 4<sup>th</sup> to the spring 14<sup>th</sup> percentile)



It took responding to the inadequate rate to help assure that Billy accelerated growth!



*We must remember that regardless of the method, the goals we set for students are directly tied to the quality and intensity with which we intervene.*

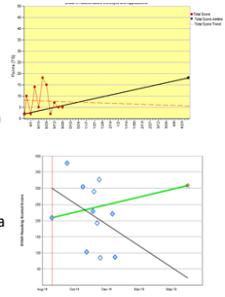


... We can't just wish for ambitious growth and blame the student when we don't get it.

Troubleshooting highly variable data

When PM data is highly variable it takes much longer to determine that a student is/is not making progress.

- Consider:
- Is the tool well designed for progress monitoring? (e.g. equated assessments)
  - Is the student engaged/motivated during progress monitoring sessions?
  - Is the student receiving instruction/intervention consistently?
  - Is the assessment being conducted in a standardized way (consistently)?





Direct Behavior Ratings: A more formal formative evaluation of social, emotional and behavioral concerns:

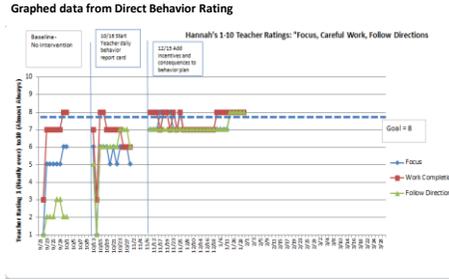
Rubric for daily behavior ratings

Behavior description	Ratings of 1 - 3 = 0 to 30% of the time	Ratings of 4 - 6 = About half (40-60%) of the time	Ratings of 7 - 10 = 70 to 100% of the time
Student was focused on his work and on task	Student was frequently off task and not paying attention. (Rating of 1 = Focused on speaker or on task 0-15% of time with prompts and re-direction)	Student is occasionally on task and engaged with work. Focused on task or speaker about 40-60% of the time. Needs prompts/re-directions.	Student is consistently oriented visually to the speaker, task at hand and/or engaged in work (Rating of 7-75% and 10 = 100% of time). Needs little to no more prompting than typical students.
Completed work and time as best as he could.	Student did not complete much work and what he completed was poor quality relative to his best work. Rating of 1 = 0 - 10% completed accurately. Rating of 2 = 20% of work completed accurately.	About half of work completed accurately. Rating of 4-6 = 40 - 60 % of work completed accurately.	Student completed work to the best of his ability. Rating of 7 = 70% completed accurately. Rating of 10 = 100% completed accurately.
Student follows directions (that he/she understands) the first time and keeps following them.	Student ignores requests despite repeated requests, incentives and/or threats. Is frequently oppositional. Rating of 1 = Follows directions and/or prompts 0 - 10% of time. Rating of 2 = Follows directions and/or prompts 2 - 20% of time.	Abandon wandered or student chose not to do what adult asked him to do about half (40-60%) of the time. Student may need directions or prompts repeated once or may need incentive or warning to keep following them.	Student for the most part (7 = 70% of the time) or consistently (10 = 100% of the time) follows directions the first time when he/she hears and understands them.

DBDM: Progress Monitoring - Seth Aldrich Ph.D

49

Direct Behavior Ratings: A more formal formative evaluation of social, emotional and behavioral concerns:



DBDM: Progress Monitoring - Seth Aldrich Ph.D

50

Thanks!

sethaldrich@gmail.com

51