



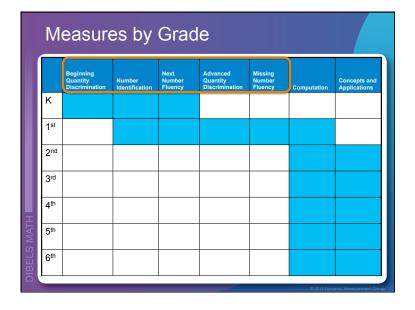
What Is DIBELS® Math?

- A set of measures used to assess mathematics skills for students from kindergarten through sixth grade that can be used to:
 - Identify students who may be at risk for mathematics difficulties
 - Help teachers identify areas to target instructional support
 - Monitor progress of students
 - Examine the effectiveness of instructional support

Foundations of DIBELS® Math

- Prevention focus—We CAN change outcomes for students
- ▶ DIBELS Math is one part of a system
- ▶ DIBELS Math is an indicator
- Teach mathematics concepts explicitly and thoroughly
- ► Monitor progress frequently and efficiently
- ► Use DIBELS Math within an Outcomes-Driven Model of decision making
- ▶ Outcomes drive instructional change

DIBELS® Math Measures Early Numeracy Beginning Quantity Discrimination Number Identification Fluency Next Number Fluency Advanced Quantity Discrimination Missing Number Fluency Computation Concepts and Applications



Time to Test									
Grade	# of Measures	Time to Test	Total						
Kindergarten	BOY, MOY, EOY: BQD, NIF, NNF	3 one-minute tests given individually	3 minutes						
First Grade	BOY: NIF, NNF, AQD, MNF, Computation MOY, EOY: AQD, MNF, Computation	4 one-minute tests given individually 2 two-minute tests done whole class 2 one-minute tests given individually 2 two-minute tests done whole class	8 minutes 6 minutes						
Second Grade	BOY, MOY, EOY: Computation, Concepts and Applications	2 two-minute tests & 1 five-minute tests done whole class	9 minutes						
Third – Sixth Grade	BOY, MOY, EOY: Computation, Concepts and Applications	2 three- to six-minute tests & 1 ten- to sixteen- minute test	18-28 minutes						

Problem types carefully constrained within and across probes Purposes—universal screening and progress monitoring Benchmark goals

DIBELS® Math Benchmark Goals

What is a Benchmark Goal? A research-based target score

- ► Represents the lowest level of performance on a measure that predicts reaching the next goal
- Consists of three parts: a basic early numeracy/ mathematics skill, a level of performance, and a point in time
- If a student achieves a benchmark goal, the odds are in favor of that student achieving later mathematics outcomes

How are the Benchmark Goals derived?

Based on longitudinal research examining how a score on a measure at a point in time predicts later outcomes

Three Levels of Performance Compared to Benchmark Goals

- At or Above Benchmark: Odds are generally 80% to 90% of achieving subsequent benchmark goals and important mathematical outcomes. Student is likely to make adequate progress with effective core instruction.
- ▶ Below Benchmark: Odds are generally 40% to 60% of achieving subsequent benchmark goals and important mathematical outcomes. Student is likely to need strategic support to make adequate progress.
- Well Below Benchmark: Odds are generally 10% to 20% of achieving subsequent benchmark goals and important mathematical outcomes. Student is likely to need intensive support to make adequate progress.

Benchmark Goals

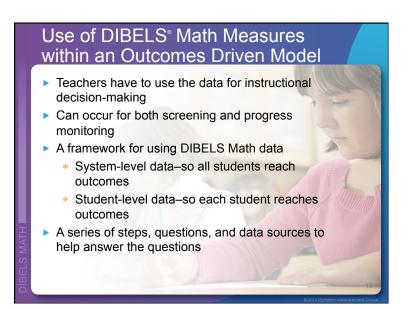
DIBELS Math Preliminary Benchmark Goals and Cut Points for Risk for Kindergarten Children

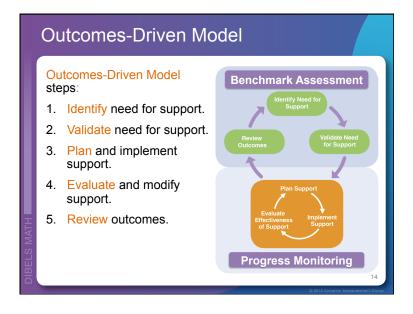
DIBELS Math Measure	DIBELS Math Score Level	Likely Need for Support	Beginning of Year	Middle of Year	End of Year
DIBELS Math	At or Above Benchmark	Likely to Need Core Support	26+	72+	88+
Composite	Below Benchmark	Likely to Need Strategic Support	15 - 25	51 - 71	67 - 87
Score	Well Below Benchmark	Likely to Need Intensive Support	0 - 14	0 - 50	0 - 66
Beginning	At or Above Benchmark	Likely to Need Core Support	5+	8+	12+
Quantity	Below Benchmark	Likely to Need Strategic Support	2 - 4	5 - 7	9 - 11
Discrimination (BQD)	Well Below Benchmark	Likely to Need Intensive Support	0 - 1	0 - 4	0 - 8
Number	At or Above Benchmark	Likely to Need Core Support	6+	15+	25+
Identification	Below Benchmark	Likely to Need Strategic Support	4 - 5	8 - 14	14 - 24
Fluency (NIF)	Well Below Benchmark	Likely to Need Intensive Support	0 - 3	0 - 7	0 - 13
	At or Above Benchmark	Likely to Need Core Support	5+	11+	13+
Next Number	Below Benchmark	Likely to Need Strategic Support	2 - 4	8 - 10	10 - 12
Fluency (NNF)	Well Below Benchmark	Likely to Need Intensive Support	0 - 1	0 - 7	0 - 9

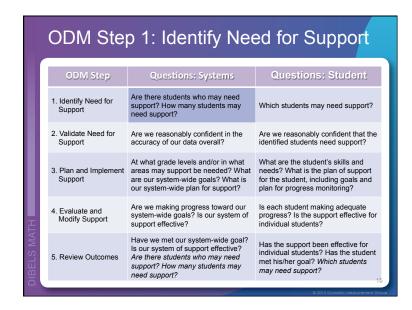
The benchmark goal is the number provided in the At or Above Benchmark row. The cut point for risk is the first number provided in the Below Benchmark row. At the beginning, the DIBELS Math Composite is 2 * BQD + 1 * NIF + 2 * NNF. At the middle, the DIBELS Math Composite is 3 * BQD + 1 * NIF + 3 * NNF. At the end of year, the DIBELS Math Composite is 2 * BQD + 1 * NIF + 3 * NNF.

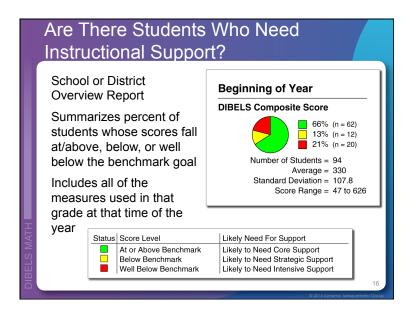
Composite Scores

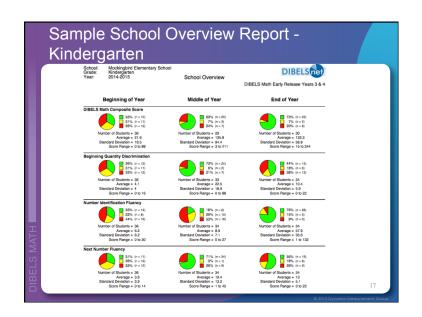
- ► Composite scores provide the best overall estimate of the student's skills.
- Composite scores take all of the measures into consideration
- ▶ Different weights are given to different measures depending on the time of year so they contribute approximately the same to the Composite Score
- Composite scores may increase or decrease because of the number of measures that make up them (e.g. 1st grade from fall to winter)

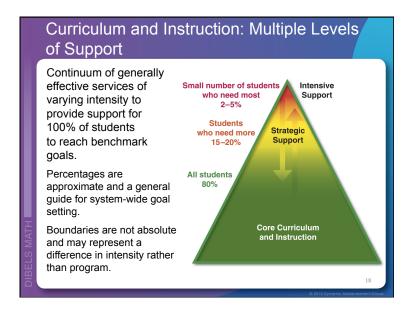




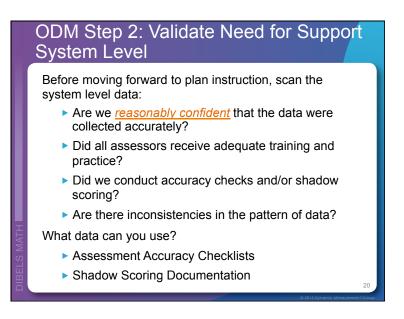








ODM Step 2: Validate Need for Support							
ODM Step	Questions: Systems	Questions: Student					
Identify Need for Support	Are there students who may need support? How many students may need support?	Which students may need support?					
Validate Need for Support	Are we reasonably confident in the accuracy of our data overall?	Are we reasonably confident that the identified students need support?					
Plan and Implement Support	At what grade levels and/or in what areas may support be needed? What are our system-wide goals? What is our system-wide plan for support?	What are the student's skills and needs? What is the plan of support for the student, including goals and plan for progress monitoring?					
Evaluate and Modify Support	Are we making progress toward our system-wide goals? Is our system of support effective?	Is each student making adequate progress? Is the support effective fo individual students?					
5. Review Outcomes	Have we met our system-wide goal? Is our system of support effective? Are there students who may need support? How many students may need support?	Has the support been effective for individual students? Has the studen met his/her goal? Which students may need support?					



ODM Step 1 & 2: Identify Need for Support and Validate Need for Support							
ODM Step	Questions: Systems	Questions: Student					
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Step 1: Identify Need for Support Student Level

Which Students May Need Support?

The Classroom or Instructional Group Report provides information on individual students at a given assessment period. The Classroom Report includes all the students from one class.

The Classroom Report shows:

- ▶ The student's score on each measure and on the DIBELS Math composite.
- ▶ The likely need for support category (i.e., Needs Core, Strategic, or Intensive Support) for the student's score on each measure and on the composite.
- Percentile ranks for the student's score on each measure to show the student's performance in relation to all participating students in the district.

Sample Classroom Report: Beginning of First Grade

School: Mockingbird Ele Grade: First Grade, Be Year: 2014-2015 Class: Mock Grade1a			C	Classroo	m Rep	ort		DIE	BELS Ma		DIBEL:	
At or Above Benchmark		d Core Suppo		Below Benchn		to Need Stra		ort 📕 Wel			aly to Need Inte	
	NID		NNF		AQD		MNF		COMPU.	TATION	COMPOSIT	E
NAME	Score	Local Percentile	Score	Local Percentile	Score	Local Percentile	Score	Local Percentile	Score	Local Percentile	Score .	Local Percentil
Praseme, Laura	8 =	5	4 📕	1	0 =	3	0 🔳	- 1	2 📕	11	28 🔳	
Arkansite, Stephanie	8 =	5	6 📕	7	2 🔳	8	1 🔳	5	3 🗆	18	47 📕	
Lightfoot, Antonio	13 📕	14	6 📕	7	6 🗆	21	1 📕	5	0 📕	3	48 📕	
Fulvous, Sandra	7 =	- 1	7 🖪	12	8 🗆	33	2 🗆	13	0 =	3	54 📕	
Green, Anne	12 🔳	12	10 🛄	30	2 =	8	2 🗖	13	4 🗔	32	72 🔳	1
Loveless, Lillian	9 📕	9	9 🛄	25	0 🔳	3	2 🗔	13	7 🖪	72	74	1-
Cardinal, Anthony	17 🗔	22	8 🛄	18	7 🗔	28	3 🗔	26	4 🗔	32	86 📕	2
Ridge, Victor	29 🖪	46	8 🛄	18	6 🗆	21	3 🗆	26	2 📕	11	88 🗆	2
Gudmundite, Eric	18 🗆	25	8 🔲	18	6 🗆	21	3 🔲	26	9 🖪	86	105 🗔	2
Burgundy, Amy	29	46	10 🗔	30	11 🖪	46	4 🖪	43	3 🗔	18	113 🗔	3
Diamond, Kenneth	28	41	13 🖪	59	16 🖪	70	5 🖪	58	4 🗆	32	140 🖪	5
Elwood, Heather	36 🖪	62	14 📙	68	6 🗆	21	7 🖪	82	4 🗔	32	141	5
Sunstone, Dorothy	29	46	12 🖪	49	14 🖪	58	6 🖪	68	5 🖪	54	143	5
Metzcalf, Daniel	45 🖪	79	10 🛄	30	15 🖪	64	7 🖪		5 🖪	54	160 🖪	6
Petersen, Peter	47 🖪	88	14 📙	68	19 📙	82	3 🔲	26	6 🖪	66	166 🖪	7.
Winchell, Walter	35 🔳	58	15 🔲	76	21 🗔	88	5 📙	58	9 🖪	86	183 🖪	7
Stone, Scott	46 🖪	84	17 🖪	91	22 🖪	91	6 🖪		8 🖪	78		8
Valentine, Andrea	55 🖪	99	17 🖪	91	26 🖪	93	7 🖪	82	9 🖪	86	229	9
GOAL	25		12		10		4		5		124	
AVERAGE	26.2		10.4		10.4		3.7		4.7		115.6	

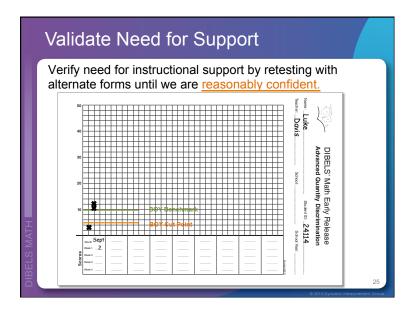
Validate Need for Support at the Student Level

What do you need to know?

- ▶ Are we *reasonably confident* the student needs instructional support?
 - *Rule out easy reasons for unexpected performance: bad day, confused on directions or task, ill, shy, or error in assessment administration

What data can you use?

- Any additional available assessment data
- Repeat DIBELS Math assessments using progress monitoring booklets.
 - * General guideline: At least 2 more times, not on the same day but within 1 week



	ODM Step 3: Plan Support									
	ODM Step	Questions: Systems	Questions: Student							
ı	Identify Need for Support	Are there students who may need support? How many students may need support?	Which students may need support?							
	Validate Need for Support	Are we reasonably confident in the accuracy of our data overall?	Are we reasonably confident that the identified students need support?							
	Plan and Implement Support	At what grade levels and/or in what areas may support be needed? What are our system-wide goals? What is our system-wide plan for support?	What are the student's skills and needs? What is the plan of support for the student, including goals and plan for progress monitoring?							
	Evaluate and Modify Support	Are we making progress toward our system-wide goals? Is our system of support effective?	Is each student making adequate progress? Is the support effective for individual students?							
	5. Review Outcomes	Have we met our system-wide goal? Is our system of support effective? Are there students who may need support? How many students may need support?	Has the support been effective for individual students? Has the student met his/her goal? Which students may need support?							
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Setting System-Wide Goals

At Clover School, 59% of students scored at/above the Composite Score benchmark at the beginning of first grade.

- 68% scored at/above the benchmark on NIF
- 55% scored at/above the benchmark on NNF
- 58% scored at/above the benchmark on AQD
- 66% scored at/above the benchmark on MNF
- ▶ 57% scored at/above the benchmark on Computation

Our goal is that at the end of the year (EOY), ____% of first grade students will have early numeracy and basic computational skills at a level at which they score at/above the benchmark goal on the DIBELS Math Composite Score and on all of the component measures/skills.

Plan Support at the System Level: Summary of Clover Elementary School

- ► What are system-wide goals for first grade at Clover Elementary School?
- ▶ What is the plan for achieving system goals?
 - Need for strong core in foundational early numeracy skills in Kindergarten
 - Need for differentiated instruction for all students in first grade
 - Need for targeted support in foundational early numeracy skills and basic computation skills in first semester of first grade

What Is Our Plan to Achieve System Goals?

Consider these variables when analyzing and improving core mathematics instruction:

- Protected block of time for instruction
- Research-based scope and sequence and instructional strategies are well trained and implemented with fidelity
- Majority of time spent in small, flexible, skill-based groups
- Resources come to classroom to support small groups

What Is Our Plan to Achieve System Goals?

Consider these variables when analyzing and improving core mathematics instruction:

- All students receive core instruction—not removed from classroom for special education, speech, etc.
- Tier 2 supports are in addition to, not instead of Tier 1
- Screening data are used to inform instruction and groups; progress monitoring data informs changing groups
- Sufficient common planning time is available weekly

ODM Step 3: Plan Support Are there students who may need 1. Identify Need for support? How many students may Which students may need support? Support need support? 2. Validate Need for Are we reasonably confident in the Are we reasonably confident that the Support accuracy of our data overall? identified students need support? What are the student's skills and At what grade levels and/or in what 3. Plan and Implement areas may support be needed? What needs? What is the plan of support Support are our system-wide goals? What is for the student, including goals and our system-wide plan for support? plan for progress monitoring? Are we making progress toward our Is each student making adequate 4. Evaluate and system-wide goals? Is our system of progress? Is the support effective for Modify Support support effective? individual students? Have we met our system-wide goal? Has the support been effective for Is our system of support effective? individual students? Has the student 5. Review Outcomes Are there students who may need met his/her goal? Which students support? How many students may may need support?

Step 3: Planning Support at the Student Level What do you need to know? How will children be grouped for support? What specific skills will you teach? What curriculum and/or instructional program will you use? What materials/strategies will you use? What data can you use? Classroom Report Individual test protocols Additional diagnostic data

What Is Instructional Grouping and Why Do It?

- ▶ What do we mean by "instructional grouping?"
 - * Students are grouped according to specific needs for support in a specific subject, e.g., math.
 - * Students may also receive whole group instruction and be grouped heterogeneously for most of the school day.
 - * Instructional groupings are dynamic and flexible.

How Will Students Be Grouped?

Based on similar instructional needs using:

- Scores on critical skills/measures
- Error analysis
- Additional assessment, (e.g., diagnostic assessment, placement tests)
- Knowledge and additional relevant information (e.g., behavioral needs, attendance)
- Grouping worksheets can be a helpful initial starting point

Instructional Grouping: Summary

- One purpose of collecting DIBELS Math data is to inform instructional groups.
- DIBELS Math benchmark scores can be used to form initial groups based on the mathematical skills that students have mastered and the ones they need to work on next.
- Once initial groups are formed, subgroups may be formed based on patterns of scores and performance.

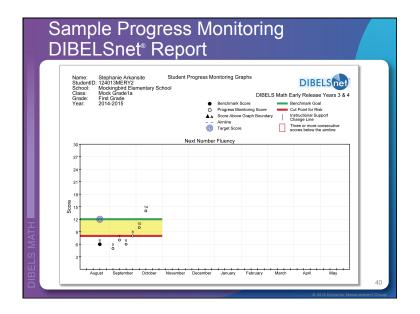
Instructional Grouping: Summary

- A goal of small group instruction is to differentiate instruction within Tiers (Tier 1, Tier 2, Tier 3).
- Matching instruction to student need is a critical practice in a Response to Intervention model of increasing student achievement.

What Specific Skills? For specific skill level use: Error analysis of DIBELS Math performance Knowledge of child performance in class Curriculum-linked assessment, e.g., mastery measures, end of unit tests Diagnostic assessment as needed The primary questions are: What can the student do? What has the student been taught? On what specific skills does the student need support?

ODM Step 4: Evaluate Support Are there students who may need 1. Identify Need for support? How many students may Which students may need support? Support need support? 2. Validate Need for Are we reasonably confident in the Are we reasonably confident that the Support accuracy of our data overall? identified students need support? At what grade levels and/or in what What are the student's skills and areas may support be needed? What needs? What is the plan of support 3. Plan and Implement Support are our system-wide goals? What is for the student, including goals and our system-wide plan for support? plan for progress monitoring? Are we making progress toward our Is each student making adequate 4. Evaluate and system-wide goals? Is our system of progress? Is the support effective for Modify Support support effective? individual students? Have we met our system-wide goal? Has the support been effective for Is our system of support effective? individual students? Has the student 5. Review Outcomes Are there students who may need met his/her goal? Which students support? How many students may may need support?

Why Is Progress Monitoring Important? Assessments that are sensitive to student growth over time allows for informed decision-making. When teachers use student progress monitoring data to inform instruction students' learning improves. Additionally students become more aware of their own performance. (Deno, 2003; Fuchs, Deno, & Mirkin, 1984; Good & Jefferson, 1998).



Basic Steps for Individual Student Progress Monitoring

- 1. Select students for progress monitoring
- 2. Determine which DIBELS materials should be used.
- 3. Set an appropriate goal for evaluating progress.
- 4. Determine the frequency of progress monitoring.
- 5. Evaluate progress toward the instructional goal. Modify the instructional plan as needed.

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Selecting Students for Progress Monitoring

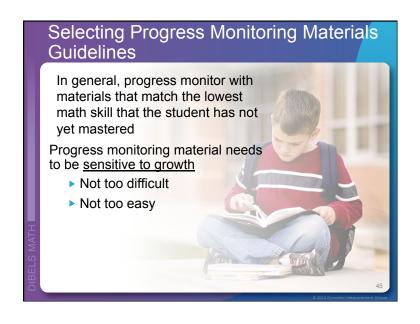
- ▶ Candidates for progress monitoring are those who scored below or well below the benchmark goal, and probably need a change to instruction.
- Progress monitoring will help evaluate the effectiveness of the change.
- However, progress monitoring can be a complex decision making process that can be difficult to do with lots and lots of students.
- When there are many students below the benchmark goal, work on improving core instruction and carefully select the students who will be monitored.
- If you collect progress monitoring data, then you need to review it for the feedback to be effective.

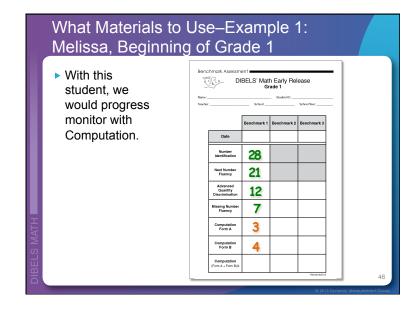
| School: Mockingbird Elementary School Grade: First Grade, Beginning of Year: 2014-2015 | Class: Mock Grade Is | Grade I

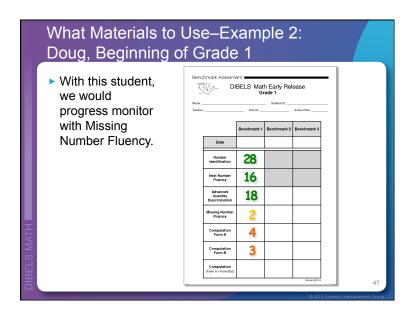
Basic Steps for Individual Student Progress Monitoring

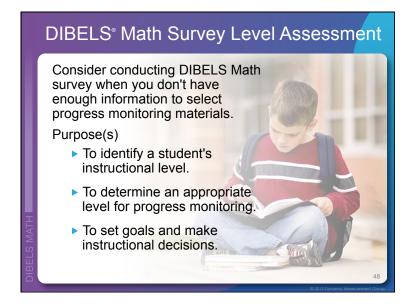
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- 5. Evaluate progress toward the instructional goal. Modify the instructional plan as needed.

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Survey Level Assessment Procedures

- 1. Start with on grade level benchmark scores.
- 2. If the Composite Score is well below benchmark, then test backwards. You can also test backwards if individual measures are well below benchmark.
- Test back sequentially until you find the measure on which the student scores at/above benchmark based on the end of the year benchmark goals for that grade.
- 4. Progress monitor one level above where students are at/above benchmark (e.g. if a 5th grade student is at/above benchmark on 3rd grade materials, but well below/below benchmark on 4th grade materials, monitor on 4th grade materials).

Basic Steps for Individual Student Progress Monitoring

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- 4. Determine the frequency of progress monitoring.
- 5. Evaluate progress toward the instructional goal. Modify the instructional plan as needed.

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Well-Written Goals When Monitoring with Grade Level Material

When monitoring with grade-level material, use the next benchmark goal for that measure.

► Grade-level material includes any measure used for benchmark assessment in that grade

K: BQD, NIF, NNF

1st: NIF, NNF, ADQ, MNF, Computation

 $2^{\text{nd}}\!\!-\!\!6^{\text{th}}\!\!:$ Computation, Concepts & Applications

Components of Well-Written Goals

Learner:

Name of student

Behavior:

▶ What is it that you want the student to do (i.e., correct digits, etc.)?

Criterion:

How much of the behavior does the student have to do?

Conditions:

- ➤ Time frame typically determined by number of weeks until benchmark assessment or end-of-school year
- Measurement material (i.e., guided data collected via DIBELS Math Missing Number Fluency)

Well-Written Goal Example

First Grade:

By the end of the year, Jason will score 15 correct digits on a 1st grade level Computation probe.

Kindergarten:

By the end of the year, Heather will score 25 correctly identified numbers on a Number Identification Fluency probe.

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Well-Written Goals When Monitoring with Out-of-Grade Level Material

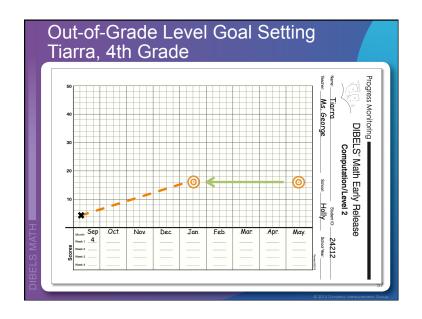
- ▶ There are multiple statistical approaches to out-ofgrade level goal setting. Determining goals through a variety of methods typically results in the same goal. Some methods are more time consuming and require complex mathematical calculations.
- ➤ The least time consuming way to end up with a reasonable goal is to use the end of the year goal and students need to reach it in half the amount of time.

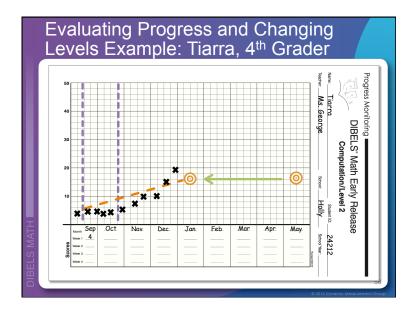
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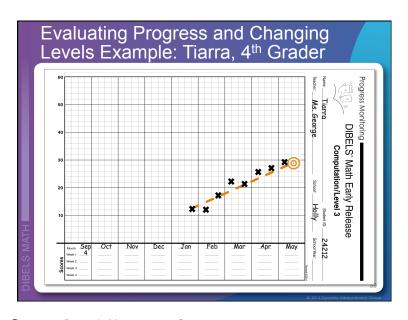
Steps for Setting Out-of-Grade Progress Monitoring Goals

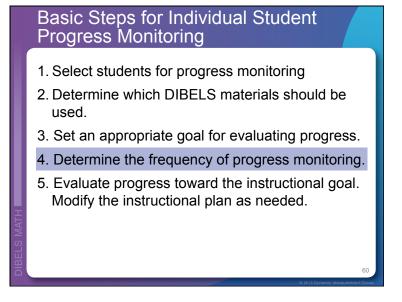
- 1. Determine students current level of performance (e.g., testing backwards using DIBELS Math materials).
- 2. Determine the goal based on the progress monitoring level and the end-of-year benchmark goal for that level (e.g., 16 correct digits in second-grade Computation).
- 3. Set the goal date so that the goal is achieved in half the time in which it would typically be achieved (e.g., move the end-of-year benchmark goal to be achieved by the middle-of-year benchmark time).
- 4. Draw an aimline connecting the current performance to the goal.

Well-Written Out-of-Grade Goal Example By the middle of the year, Tiarra will score 16 correct digits on a 2nd grade Computation probe.









Progress Monitoring Step 3: Determine Frequency

PM frequency guidelines:

- ▶ If monitoring in grade-level materials
 - * If the student's scores fall into the <u>Below</u>
 <u>Benchmark</u> level, monitoring <u>one or two times per</u>
 <u>month</u> is likely sufficient.
 - * If scores fall into the <u>Well Below Benchmark</u> level, monitoring <u>once per week</u> is ideal, though once every other week may be sufficient.
- If monitoring a student in out-of-grade materials, monitoring once per week is ideal, though every other week may be sufficient.

Note: Progress monitoring is the assessment that evaluates instruction. Instruction and intervention should be provided that matches student need.

	ODM Step 5: Review Outcomes								
	ODM Step	Questions: Systems	Questions: Student						
ı	Identify Need for Support	Are there students who may need support? How many students may need support?	Which students may need support?						
ı	Validate Need for Support	Are we reasonably confident in the accuracy of our data overall?	Are we reasonably confident that the identified students need support?						
ı	Plan and Implement Support	At what grade levels and/or in what areas may support be needed? What are our system-wide goals? What is our system-wide plan for support?	What are the student's skills and needs? What is the plan of support for the student, including goals and plan for progress monitoring?						
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DIBELS MAT	5. Review Outcomes	Have we met our system-wide goal? Is our system of support effective? Are there students who may need support? How many students may need support?	Has the support been effective for individual students? Has the student met his/her goal? Which students may need support?						
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- 3. Set an appropriate goal for evaluating progress.
- 4. Determine the frequency of progress monitoring.
- 5. Evaluate progress toward the instructional goal. Modify the instructional plan as needed.

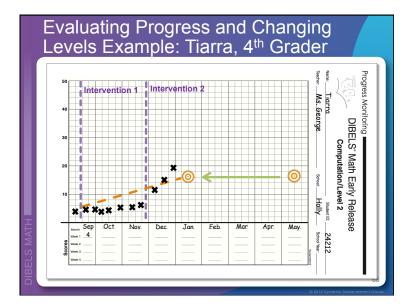
Considerations in Evaluating Progress Monitoring Data

Considerations for Decision Making:

- Give the instruction/intervention enough time to work.
- ▶ Is the student's progress generally up?
- ▶ Is the student receiving research-based instruction?
- Is the instruction focused on the right skill?
- ▶ Is the instruction/intervention being implemented with fidelity?

Considerations in Evaluating Progress Monitoring Data

- Review progress relative to the goal, the aimline and the Pathways (when Pathways are available for DIBELS Math)
- If insufficient progress consider:
 - increasing opportunities to respond (increase amount of time and/or frequency, decrease group size)
 - changing focus of instruction
 - getting more explicit
- When student reaches the goal, make a change
 - fade support, move to next skill, move to next level of monitoring material



ODM Step 5: Review Outcomes Systems Level (EOY)

Systems Level

- Is the system of support generally effective to support most students to reach mathematics outcomes?
 - Determined by percent of students who meet benchmark goals or have made adequate progress toward benchmark goals
 - If a large proportion of students do not meet benchmark goals and/or do not make adequate progress, a change in system-level support may be necessary

Student Level

Have the students who were Below or Well Below Benchmark made progress toward the next benchmark goal?

Themes-We Can Build Futures If We:

- SUPPORT students, teachers, schools.
- CARE about math outcomes.
- ► START EARLY: Trajectories are difficult to change
- ▶ SET ambitious goals.
- ► TEACH the early math skills.
- ► MONITOR progress toward goals.
- ▶ DO SOMETHING if/when students are not on track.
- ▶ CELEBRATE successes!

