Using Key Components of a Multi-Tiered System of Supports (MTSS) Framework Session 3

NYS-RtI TAC
Fall 2016 Webinar Series

Dr. George M. Batsche
Director
Institute for School Reform
University of South Florida
batsche@usf.edu

- Using Key Components of a MTSS Framework
- Implementing the Common Core Learning Standards within MTSS
- Integrating the Data-Based Problem-Solving Process (RtI) into a MTSS
- Aligning Instruction/Interventions with the CCLS and Integrating Instructional Practices Across the Tiers
- Ensuring the Integration of Academic Skills, Academic Behavior Expectations and Scaffolding to Maximize Student Engagement within the Instructional Process
- Meeting the Needs of Students with Disabilities and Students with 504 Accommodations Through Specially Designed Instruction within an MTSS Framework
- Have courageous conversations
- Reflect, celebrate, reverberate, breathe
- GET FIRED UP!

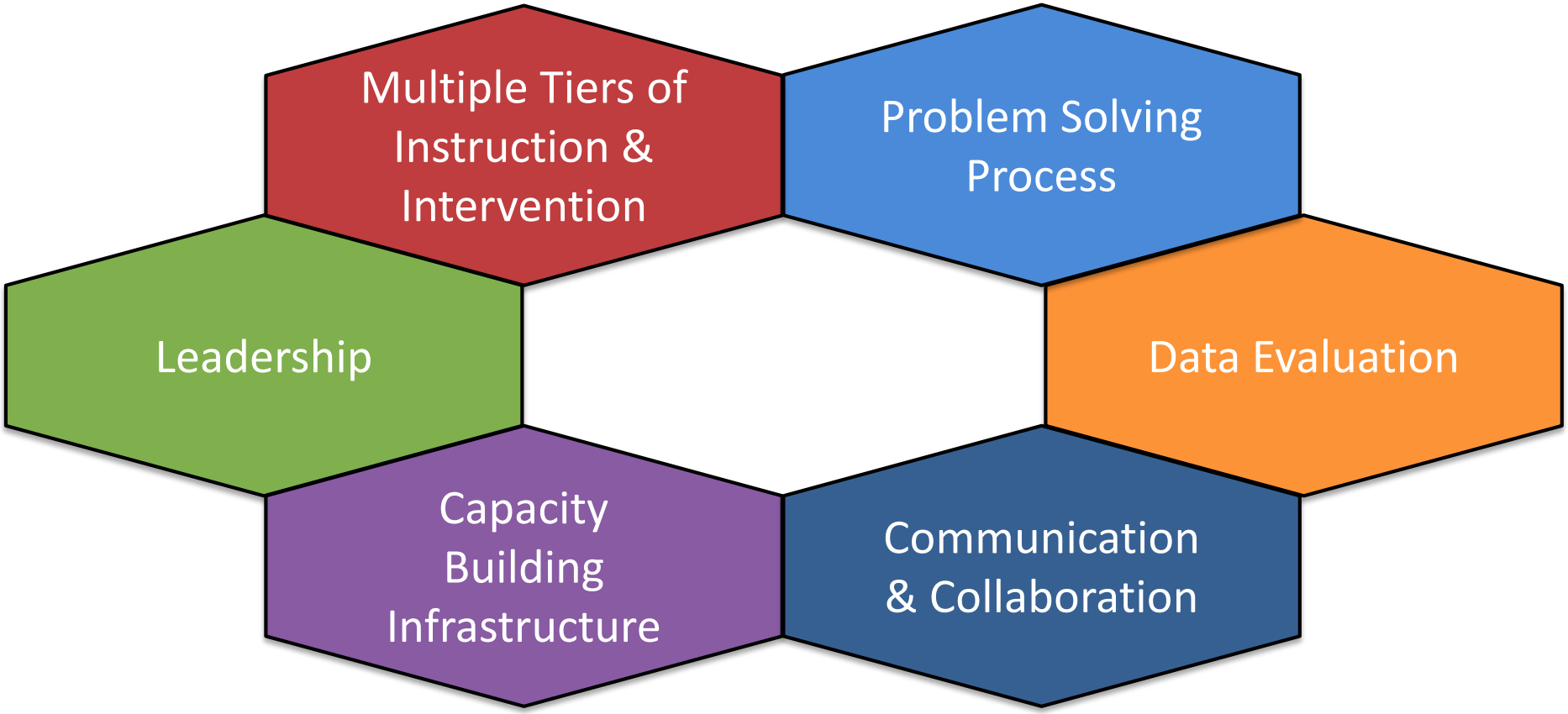
Review
Last time we talked about….

- Integrating Academic and Behavior Goals
- Aligning MTSS with the CCLS
- Unpacking the Standards
- Identifying Skills to be the Focus of Instruction and Problem-Solving
- Using Universal Design for Learning

This week we will….

- Identify the steps and activities in the problem-solving process
- Apply the problem-solving process to an actual case
- Use the Problem-Solving Fidelity Checklist to ensure fidelity of implementation.

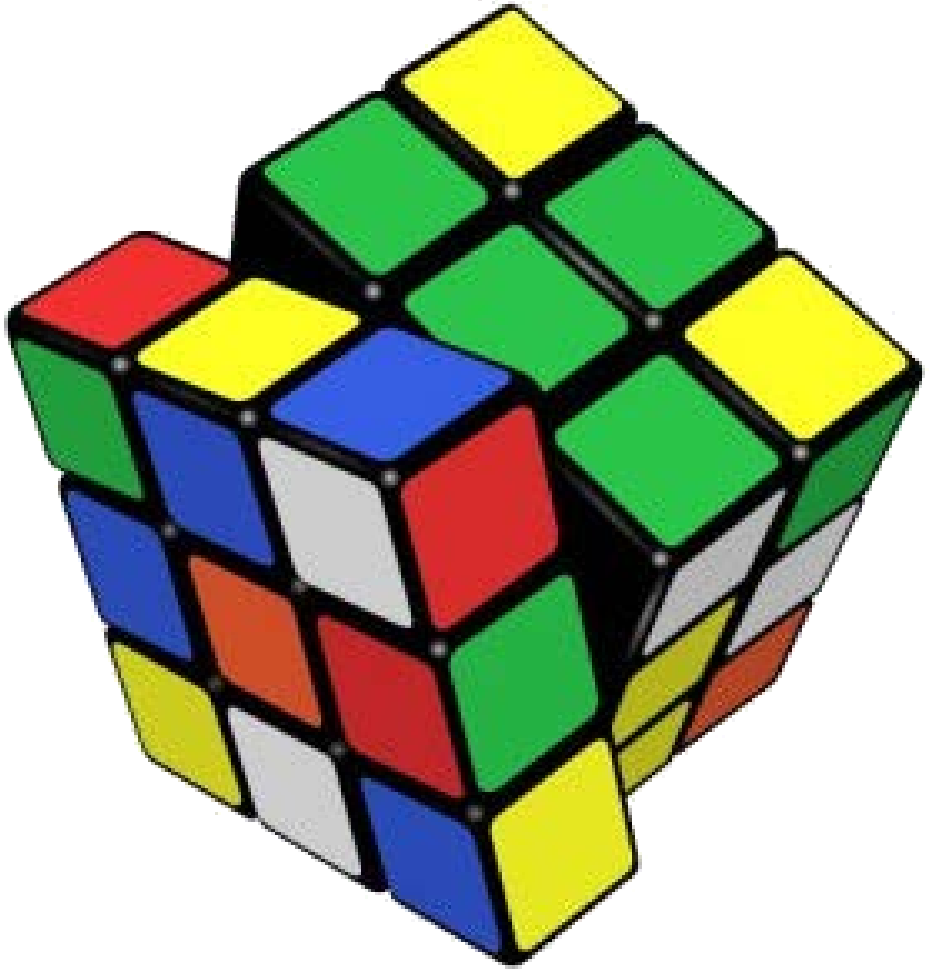
Critical Components of MTSS



MTSS is a framework to ensure successful education outcomes for ALL students by using a data-based problem solving process to provide, and evaluate the effectiveness of multiple tiers of integrated academic, behavior, and social-emotional instruction/intervention supports matched to student need in alignment with educational standards.

Problem-Solving is the Engine That Drives Instruction and Intervention

It is the MOST Critical Skill A Leader Can Possess



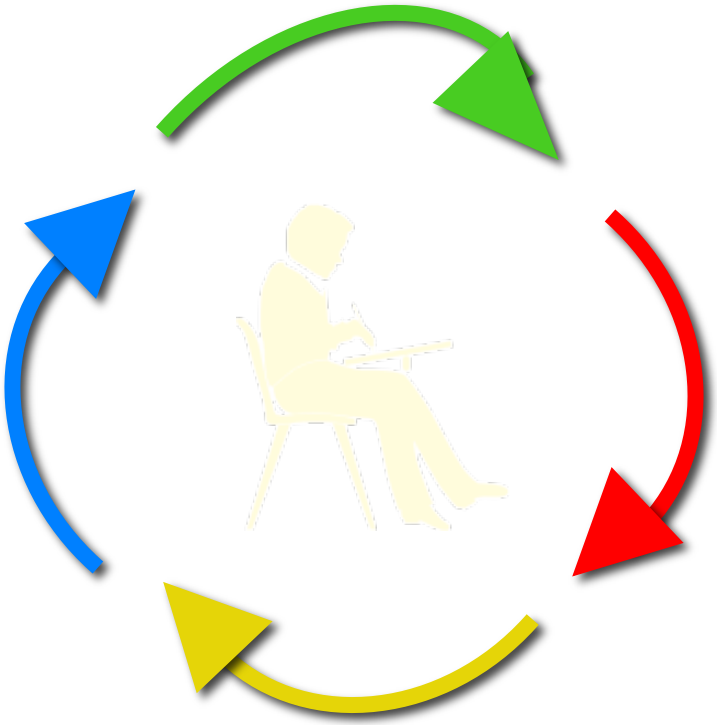
K. Leithwood, 2007

Problem Solving Process: Levels of Implementation

Level of Implementation	Problem Solving Team	Example
Student	Individual Teacher and/or Teacher Teams	Student is continually absent from class
Classroom	Individual Teacher and/or Teacher Teams	A large number of students in one classroom failed the unit test
Grade/Department Level	Teacher Teams and/or Instructional Leadership Team	A majority of students in grade 9 Algebra did not perform well on the mid-year assessment
School Level	Instructional Leadership Team	Low overall percentage of students meeting growth targets
District Level	District Senior Leadership Team	Increase in expulsions across schools

Problem Solving Process

Identify the Goal
What Do We Want Students to Know, Understand and Be Able to Do? (KUD)



Problem Analysis
WHY are they not doing it?
Identify Variables that Contribute to the Lack of Desired Outcomes

Implement Plan
Implement As Intended
Progress Monitor
Modify as Necessary

Evaluate
Response to Intervention (RtI)

Steps in the Problem-Solving Process

1. **Problem Identification**
   - Identify replacement behavior
   - Data- current level of performance
   - Data- benchmark level(s)
   - Data- peer performance
   - Data- GAP analysis
2. **Problem Analysis**
   - Develop hypotheses (brainstorming)
   - Develop predictions/assessment
3. **Intervention Development**
   - Develop interventions in those areas for which data are available and hypotheses verified
   - Proximal/Distal
   - Implementation support
4. **Response to Intervention (RtI)**
   - Frequently collected data
   - Type of Response- good, questionable, poor

Step 1

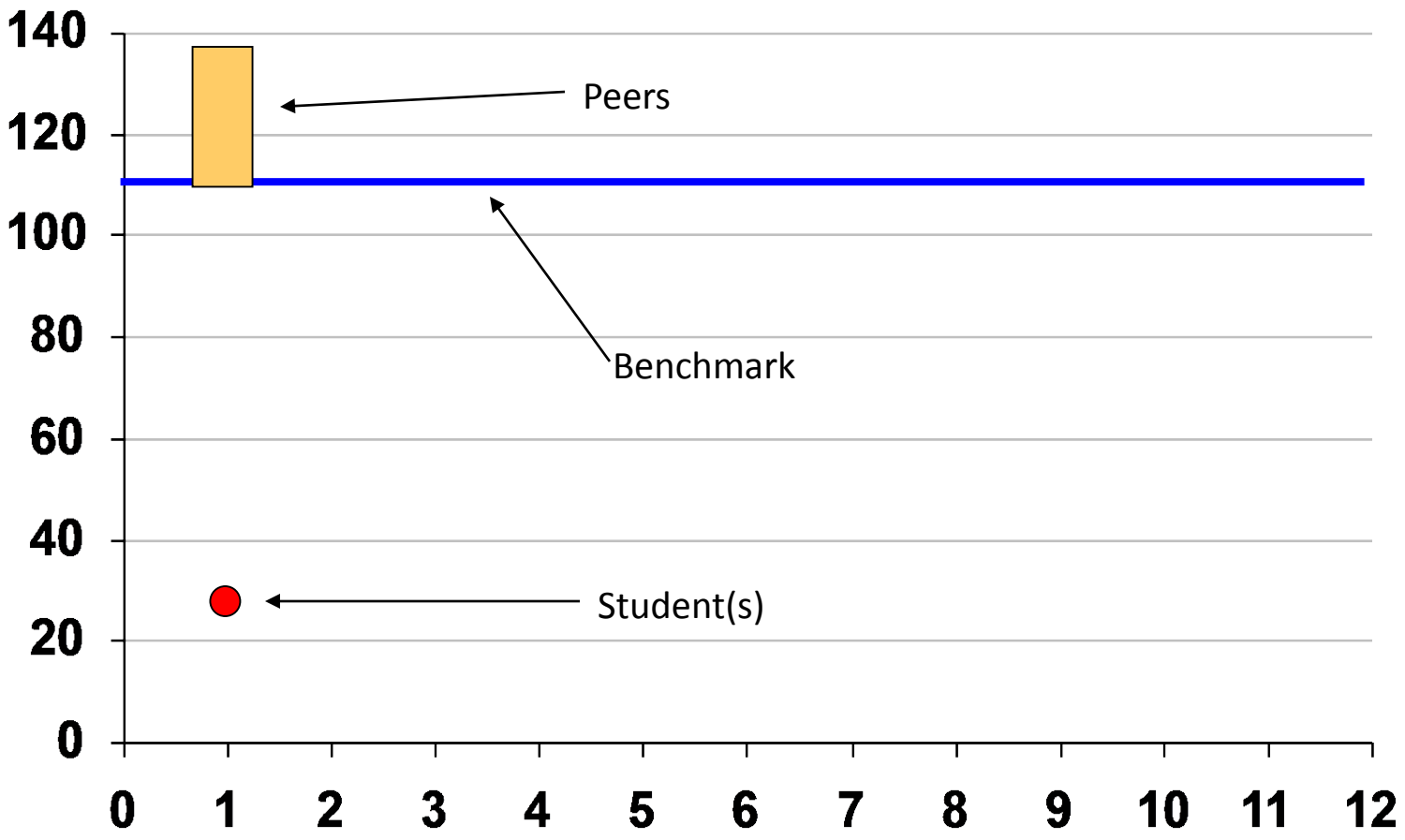
Identifying the GOAL

Setting the Benchmark

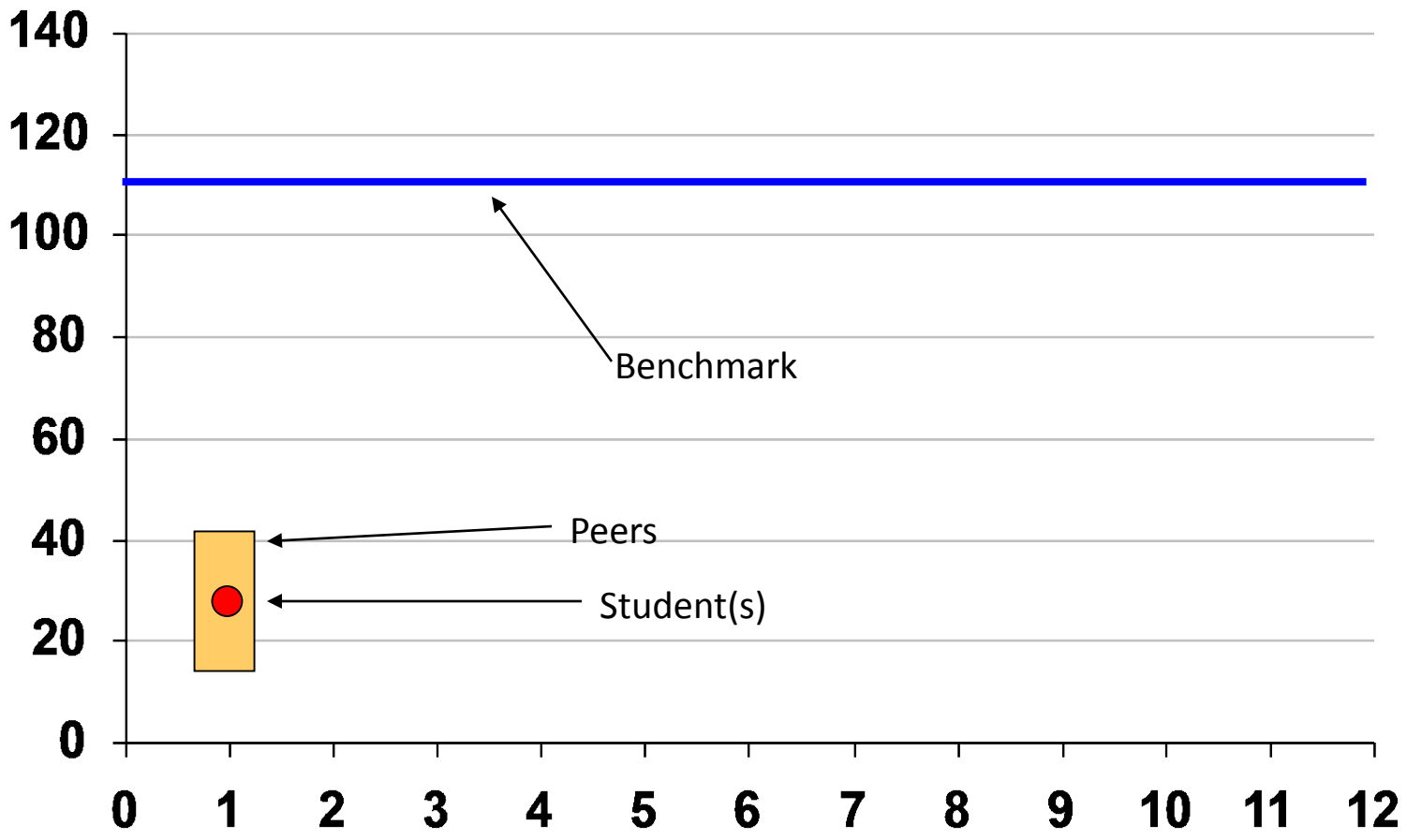
Determining WHOSE Issue is it?

Establishing a rate of progress necessary to attain the goal.

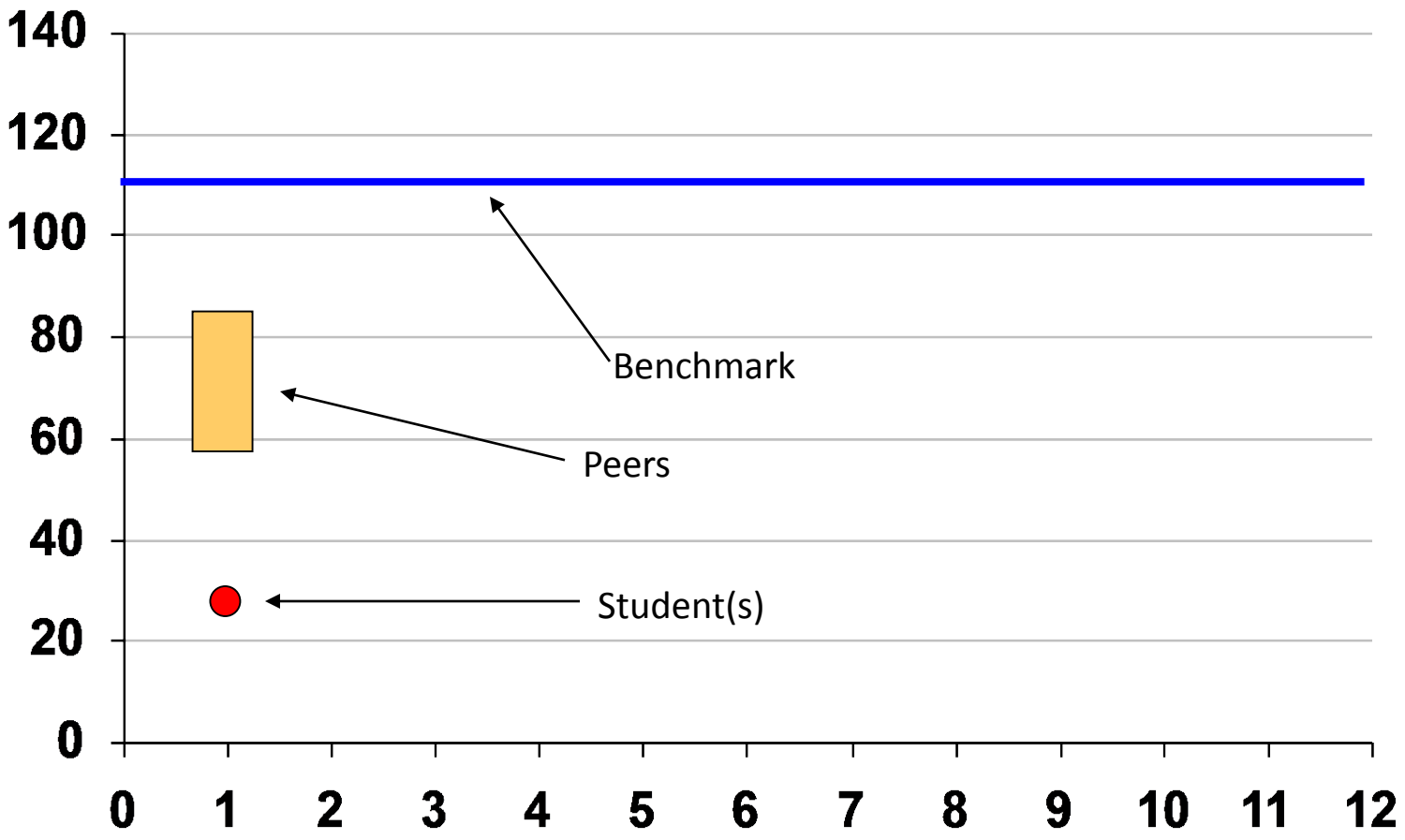
Problem ID Review



Problem ID Review



Problem ID Review



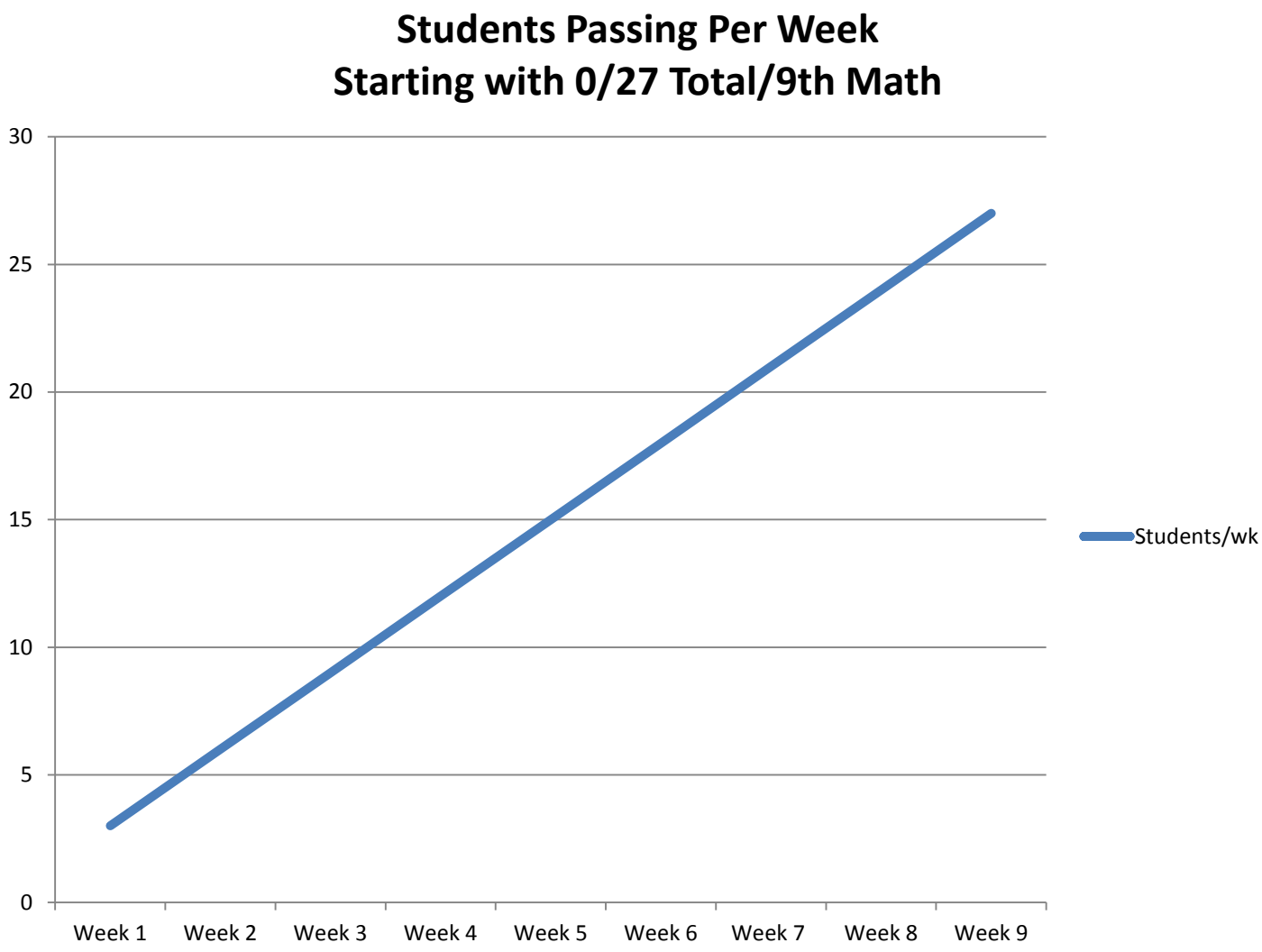
Steps in the Problem-Solving Process

1. Goal Identification

- Identify replacement behavior
  - Pass math in 9th grade
- Data- current level of performance
  - 193 are passing math 27 are not passing
- Data- benchmark (desired) level(s)
  - 220
- Data- peer performance
  - 193/220 passing
- Data- GAP analysis
  - 27 students

Data-Based Determination of Expectations Math 9

- Current- 27 Students Failing
- Benchmark Level- 0 Failing
- Date- Want all passing within 9 weeks.
- Calculate-
  - Difference between current and benchmark level- 220-193=27
  - Divide by # Weeks- 9
  - Result: # of student increased passing - 3 per week in order to hit the goal of 27 in 9 weeks.


Students Passing Per Week
Starting with 0/27 Total/9th Math
30
25
20
15
10
5
0
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Students/wk

Step 2:
Problem Analysis

The “Why”, “Root Cause”

Hypotheses Development

Assessment To Validate Hypotheses

Fact Finding

Problem Analysis is the process of gathering information in the domains of **instruction, curriculum, environment and the learner (ICEL)** through the use of **reviews, interviews, observations, and tests (RIOT)** in order to evaluate the underlying causes of the problem.

Generate Hypotheses

Developing informed statements about ***why*** the desired behavior(s) are not occurring.

The (desired behavior) is not occurring because…

27 students are unable to pass Math 1 because....

Sources of data to **evaluate** hypotheses

- ✓ Review
- ✓ Interview
- ✓ Observe
- ✓ Test

(RIOT)

Develop Hypothesis: ICEL

- We must ask questions to form a hypothesis regarding"What is the goal not being attained? Why is the goal not being attained?"
- We ask questions across four domains.

Key Domains of Learning

I	**Instruction**	Instruction is **how** the curriculum is taught.
C	**Curriculum**	Curriculum refers to **what** is taught.
E	**Environment**	The environment is **where** the instruction takes place.
L	**Learner**	The learner is **who** is being taught.

Problem-Solving using the ICEL/RIOT Matrix

Domain		Variables	Review	Interview	Observe	Test
Instruction	Instruction is how curriculum is taught. How content is presented to students can vary in many different ways: Level of Instruction Rate of Instruction Presentation of Instruction Is the curriculum being differentiated to meet the needs of the learners? Consider: • instructional techniques • presentation style • clarity of instruction • questioning • feedback technique • cooperative learning • use of graphic organizers • instructional conversations • development of academic language/ vocabulary	**Group/System** • Instructional decision making regarding selection and use of materials • Use of progress monitoring • Explicit Instruction • Differentiated Instruction • Sequencing of lesson designs to promote success • Use of a variety of practice and application activities • Pace and presentation of new content • Block of time allotted per subject **Individual** • Instructional decision making regarding placement of the student • in groups • Use of progress monitoring Communication of expectations and criteria for success • Differentiated Instruction • Direct instruction with explanations and cues • Use of a variety of practice and application activities • Pace and presentation of new content	• Unit/Lessons Plans • Permanent products (e.g. written pieces, worksheets, projects) for skill/degree of difficulty requirements • Benchmarks / standards • Assignments (calculate % of assign turned in, average amount-%- of assignments completed), • Length/time required to complete assignments	Stakeholders about: • Effective teaching practices • Instructional decision making regarding choice of materials, placement of students, instructional strategies • Sequencing/pacing of instruction • Choice of screening, diagnostic and formative assessments • Product methods (e.g. dictation, oral retell, paper pencil, projects) • Grouping structures used • Accommodations/ modifications used • Reinforcement management/ engagement strategies • Allowable repetition for mastery/ understanding • Who is providing the supplemental/ intensive instruction • Use of supportive technology • Student/group performance compared to peers • Patterns of performance errors/ behavior • Setting(s) where behavior is problematic • Significance of academic, speech, social, task or motor difficulties • Onset and duration of problem • Consistency from day to day, subject to subject • Interference with personal, interpersonal, and academic adjustment • Performance using different modes of expression (e.g. verbal, written, kinesthetic) • Teacher perceptions/hypotheses regarding why the student is unable to demonstrate the desired behaviors- academic and/or behavioral • Philosophical orientation of curriculum (e.g. whole language, phonics) • Expectations of district for pacing/coverage of curriculum	• Teachers' instructional styles/preferred styles of presenting • Clarity of instructions/ directions • Effective teaching practices • Communication of benchmarks/expectations and criteria for success • How new information is presented • Percent of time with direct instruction, whole group instruction, practice time, differentiated instruction, etc. • How teachers gain/ maintain student attention • Academic engaged time • Transitions • Large group instruction • Small group instruction • Independent work time • Group work time • Teachers use of positive reinforcement, student-teacher interaction quality/quantity, (use of direct observation protocols) • Time on task • External supports necessary to sustain engagement	Classroom environment survey Develop checklists on effective instruction "Things to Look For" and "Ask About"

E

The schedule does not provide time/opportunity for practice and instruction necessary to “catch up”.

I

The instructional strategies do not emphasize explicit instructional strategies, content enhancement routines, sufficient feedback, guided instruction, or differentiation

E

Expectations (home/school community)for performance are low

C

Pacing is too fast, does not provide for sufficient student engagement. Materials are not aligned with standards, and instructional sequences are not sufficiently explicit and inconsistent across teachers.

Happy High School

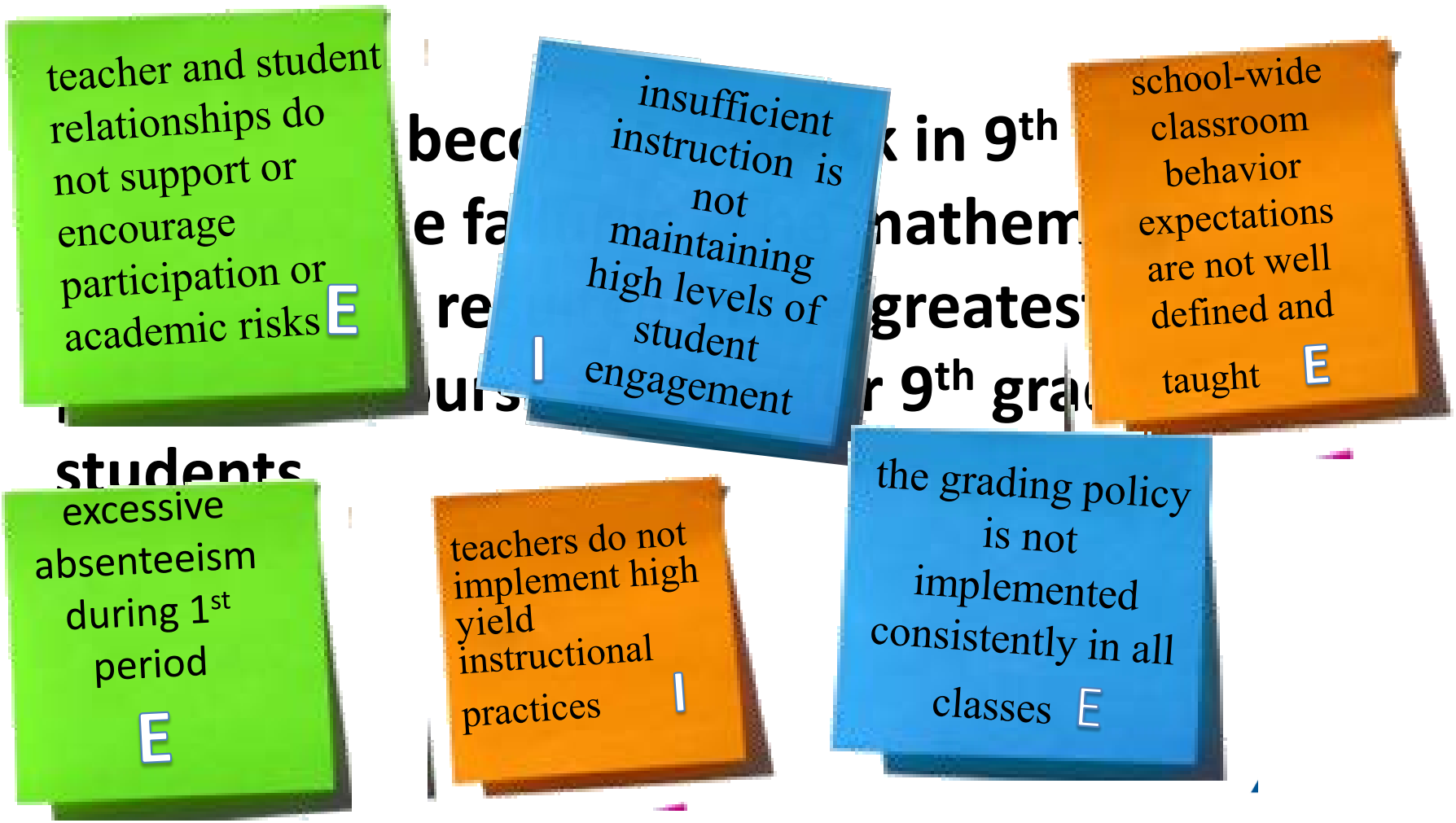
Hypothesis

The problem is occurring because _____ .

Happy High School

Hypothesis

The problem is occurring because _____ .



Step 2-Problem Analysis Hypotheses

Step 2: Problem Analysis *(Why is it occurring?)*

Generate multiple hypotheses addressing what you think is at the root of the identified issue.

Hypothesis sentence frame: *The problem is occurring because _____.*

HYPOTHESIS 1	***The difference between desired and current levels of performance in Math 1 exists because of excessive absences during Math classes.***
Prediction **If,then...**	***When students attend class at a much high rate then they will receive passing grades.***

Step 2-Problem Analysis Hypotheses

Problem-Solving Protocol

HYPOTHESIS 2	***The difference between expected and current levels of performance exist because not enough time is allocated for the most effective instructional practices.***
Prediction **If, then…**	***If more time was spent during class time using instructional practices that had high rates of student engagement (modeled practice, guided practice with teacher support, guided practice with peer support) then student performance would improve***

Step 2-Problem Analysis Hypotheses

HYPOTHESIS 4	The difference between expected and current levels of performance in Common Core Math I exist because students who are failing complete less than 50% of their classwork and their homework.
Prediction **If, then...**	When struggling students (D or F) complete more that 80% of their homework and classwork, then they improve at least 1 letter grade. When struggling students (D or F) complete less than 50% of their homework they do not improve at least 1 letter grade.

Test and Validate Hypotheses

R	eview	Review of historical records and products
	and/or	
I	nterview	Interviews of key stakeholders
	and/or	
O	bserve	Observe performance in real time functional settings
	and/or	
T	est	Test through careful use of appropriately matched measurement strategies/methods

Assessment Information
RIOT

Step 2: Problem Analysis *(Why is it occurring?)*

Generate multiple hypotheses addressing what you think is at the root of the identified issue.

Hypothesis sentence frame: *The problem is occurring because _____.*

HYPOTHESIS 1	***The difference between desired and current levels of performance in Math 1 exists because of excessive absences during Math classes.***
Prediction **If,then...**	***When students attend class at a much high rate then they will receive passing grades.***
Relevant Data R I O T	Compare grade distributions of students attending 95% of the time or more to the grade distributions of students attending 80-89%.

Step 2-Problem Analysis Hypotheses

Problem-Solving Protocol

HYPOTHESIS 2	***The difference between expected and current levels of performance exist because not enough time is allocated for the most effective instructional practices.***
Prediction **If, then…**	***If more time was spent during class time using instructional practices that had high rates of student engagement (modeled practice, guided practice with teacher support, guided practice with peer support) then student performance would improve***

Happy High School

ICEL by RIOT: Validating/Invalidating Hypothesis

Hypothesis 1:

The difference between expected and current levels of performance in Common Core Math I exists because of excessive absenteeism during 1st period.

Data: The average rate of attendance for students receiving A-C grades is 96%. The average rate of attendance for students receiving F grades is 94%. No difference exists.

Complete Step 2

Step 2: Problem Analysis *(Why is it occurring?)*
Generate multiple hypotheses addressing what you think is at the root of the identified issue.

Hypothesis sentence frame: *The problem is occurring because _____.*

HYPOTHESIS 1	***The difference between desired and current levels of performance in Math 1 exists because of excessive absences during Math classes.***
Prediction **If,then...**	***When students attend class at a much high rate then they will receive passing grades.***
Relevant Data R I O T	Compare grade distributions of students attending 95% of the time or more to the grade distributions of students attending 80-89%.
Validated? *Yes/No*	NO. A Review of the attendance and grade data indicated that the students receiving F grades had attendance patterns very similar to those students receiving A-C grades.

Assessment Information
RIOT

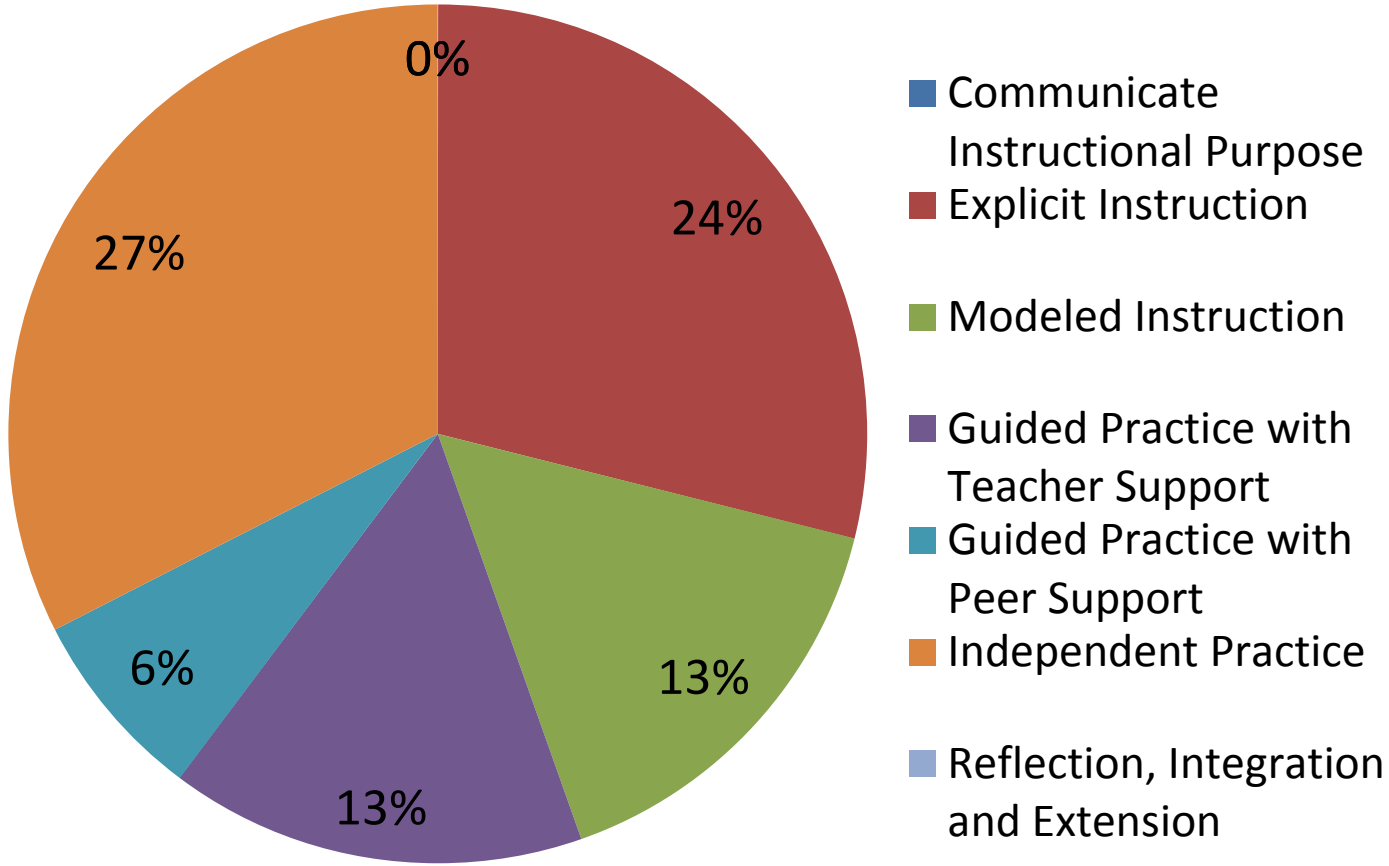
Problem-Solving Protocol

HYPOTHESIS 2	***The difference between expected and current levels of performance exist because not enough time is allocated for the most effective instructional practices.***
Prediction **If, then…**	***If more time was spent during class time using instructional practices that had high rates of student engagement (modeled practice, guided practice with teacher support, guided practice with peer support) then student performance would improve***
Relevant Data R I O T	Observation- collect data during walkthroughs to assess the types of instruction strategies used, what percent of the time they are used and the level of student engagement for each type of strategy.

Model: Happy High School

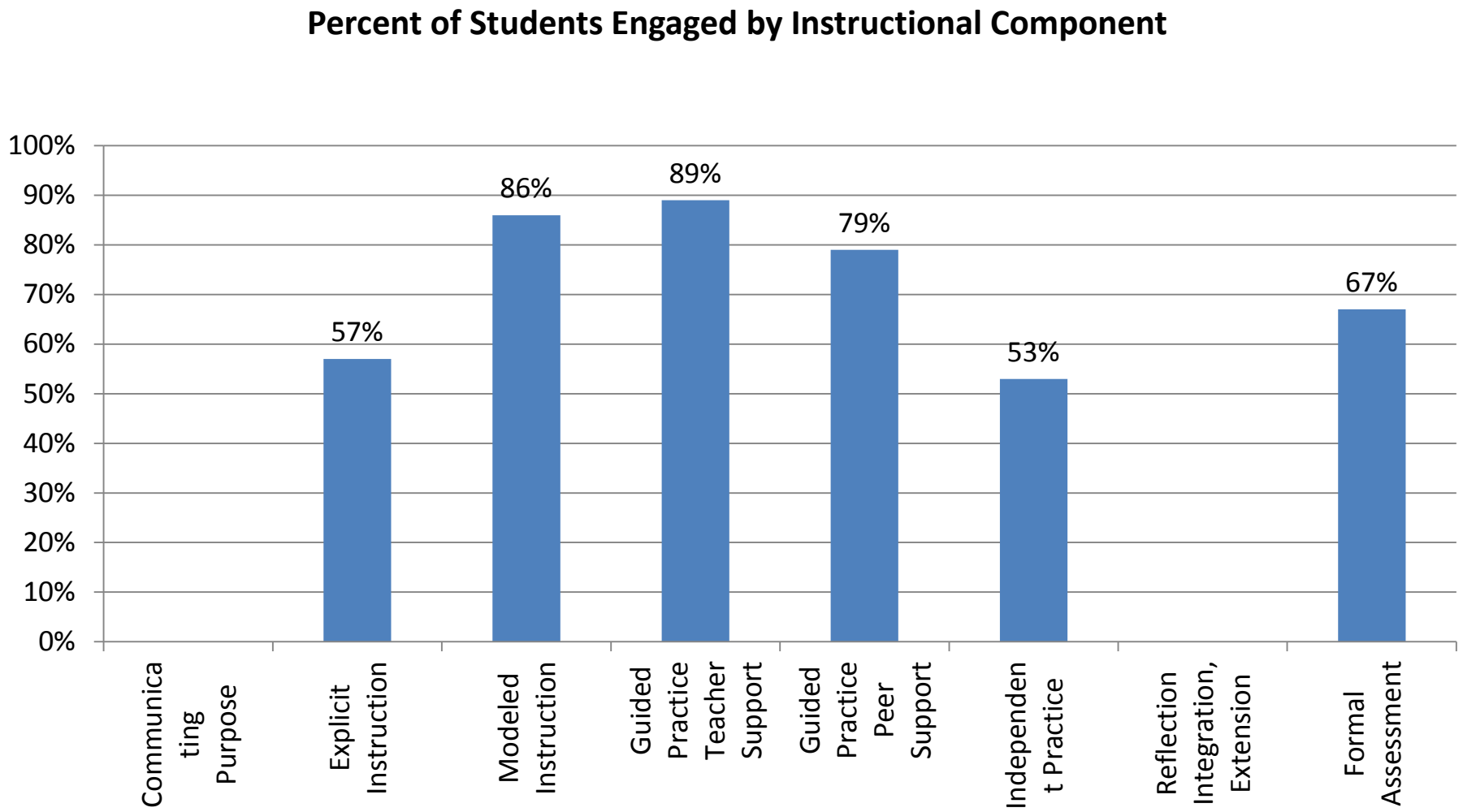
OBSERVE: Conducted Walkthrough

Instruction Component: Percent of Intervals Observed



Model: Happy High School

OBSERVE: Walkthrough Data



Complete Step 2
Hypothesis 2

Problem-Solving Protocol

HYPOTHESIS 2	***The difference between expected and current levels of performance exist because not enough time is allocated for the most effective instructional practices.***
Prediction **If, then…**	***If more time was spent during class time using instructional practices that had high rates of student engagement (modeled practice, guided practice with teacher support, guided practice with peer support) then student performance would improve***
Relevant Data R I O T	Observation- collect data during walkthroughs to assess the types of instruction strategies used, what percent of the time they are used and the level of student engagement for each type of strategy.
Validated? *Yes/No*	YES. The types and times of instructional strategies vary significantly and the strategies with the greatest student engagement are used for lesser amounts of time.

Complete Step 2
Hypothesis 3

HYPOTHESIS 4	The difference between expected and current levels of performance in Common Core Math I exist because students who are failing complete less than 50% of their classwork and their homework.
Prediction **If, then...**	When struggling students (D or F) complete more that 80% of their homework and classwork, then they improve at least 1 letter grade. When struggling students (D or F) complete less than 50% of their homework they do not improve at least 1 letter grade.
Relevant Data R I O T	Review. Identify struggling students who complete less than 50%of their homework/classwork and students who complete more than 80%.

Student Survey Data: Productivity: The ILT collected survey data from all current students to better understand the barriers that impede productivity (work completion).

About how often do you not complete your classwork?				
Almost Everyday	1-3 times a week	1-3 times a month	1-3 times a semester	I always complete my classwork
6%	11%	17%	12%	54%

When you do not complete your classwork, it is because...				
I don't understand how to do it	I need my teacher to show me more examples of how to do it	I need my teacher to watch me work and correct my mistakes	The classwork is boring	It doesn't matter if I do my classwork, I will fail anyway
49%	23%	31%	39%	9%

About how often do you not complete your homework?				
Almost Everyday	1-3 times a week	1-3 times a month	1-3 times a semester	I always complete my classwork
9%	16%	16%	13%	46%

When you do not complete your homework, it is because...					
I don't understand how to do it	I don't have help to do it	I didn't write down the assignment correctly	I didn't bring home the right materials	No one is checking to see if I did my homework	I always complete my homework without trouble
66%	43%	12%	13%	3%	43%

Grade Book Data

	Less than 50% work comp	80% or more work comp
Grading Period 1-1st half	D or F grade	NA
Grading Period 1-2nd half	D or F grade	C or D Grade

Step 3

Developing, Implementing Instruction/Interventions

With Fidelity and Sufficiency

From Problem Analysis to Intervention

- Hypothesis 2*:* **Validated**

The difference between expected and current levels of performance exist because not enough time is allocated for the most effective instructional practices.

What type of intervention does this validated hypothesis suggest?

From Problem Analysis to Intervention

- Hypothesis 4: Validated

The difference between expected and current levels of performance exits because students are not completing sufficient amounts of homework and classwork.

What type of intervention does this validated hypothesis suggest? Is it a separate intervention or another validation for Hypothesis 2?

Interventions

- **WHAT** will be done?
  - Allocate more time to the most effective instructional practices that engage students.
- **WHO** will do it?
  - Classroom Teachers with PLC support
- **WHEN** will it be implemented and for how long?
  - Start Date---
  - 4 weeks
- **WHAT** data will be collected to monitor intervention on student performance
  - Accuracy on chapter tests and common assessments
  - Peer observations of instructional practices and student engagement
- **HOW** often will the data be reviewed?
  - **After each chapter test.**

Intervention Support

- Intervention plans should be developed based on student need and skills of staff
- All intervention plans should have intervention support
- Principals should ensure that intervention plans have intervention support
- Teachers should not be expected to implement plans for which there is no support

Intervention Documentation Worksheet

Week of _____ **Teacher:** _____

Student	Monday			Tuesday			Wednesday			Thursday			Friday			Total # of Minutes
	T	P	F	T	P	F	T	P	F	T	P	F	T	P	F	

Legend

T = Time (# of minutes) P = Program F = Focus	**Focus** L = Language PA = Phonemic Awareness P = Phonics F = Fluency V = Vocabulary C = Comprehension MC = Math Computations MA = Math Applications B = Behavior	**Programming** *(Create your own key. For example. W = Wilson Fundations, SST = Social Skills Training, CCC = Cover/Copy/Compare)* _____ = _____ _____ = _____ _____ = _____ _____ = _____ _____ = _____

Step 4

Response to Instruction/Intervention

Decision Rules: What Constitutes Sufficient Progress?

Decision Rules

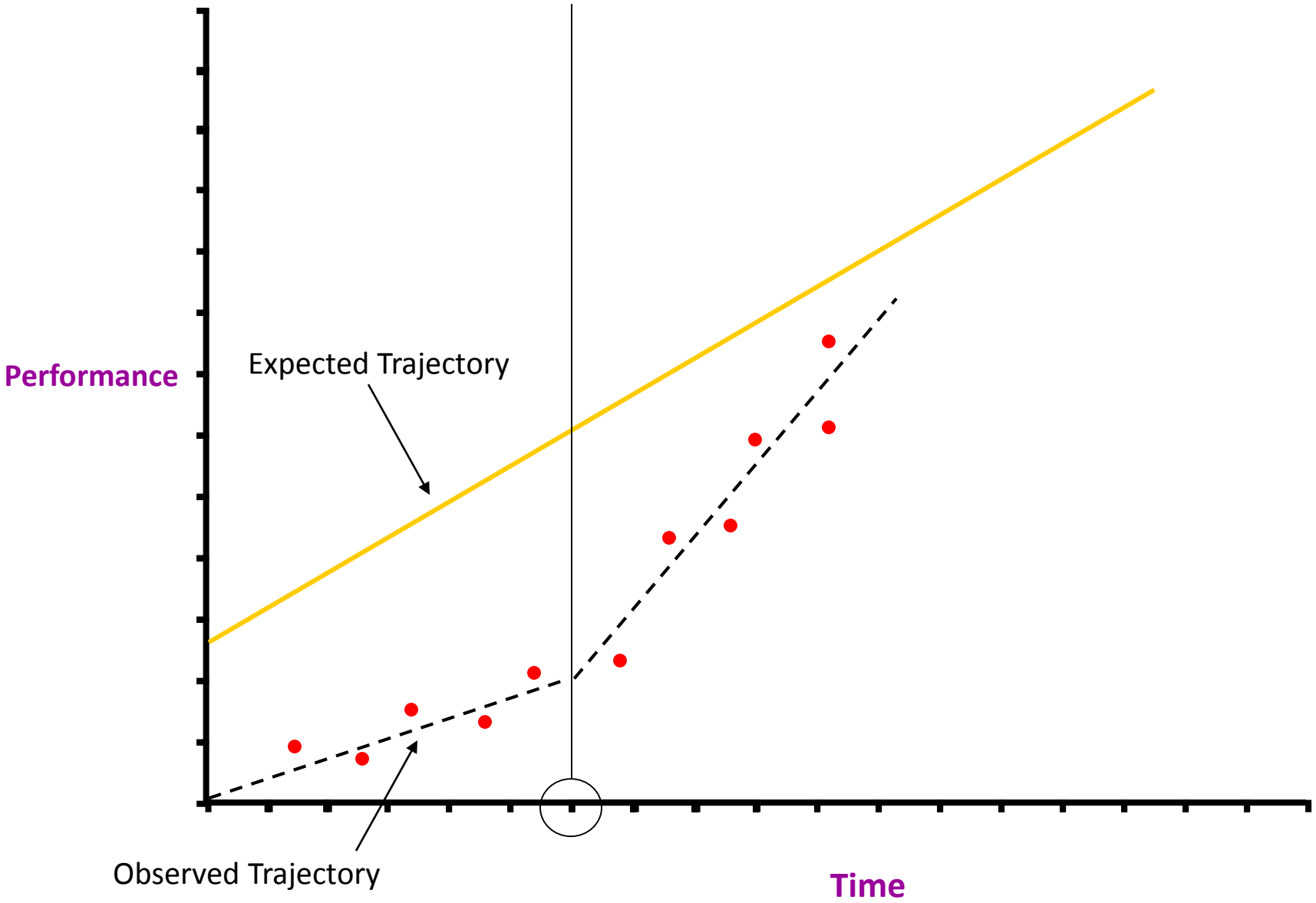
- Response to Intervention Rules

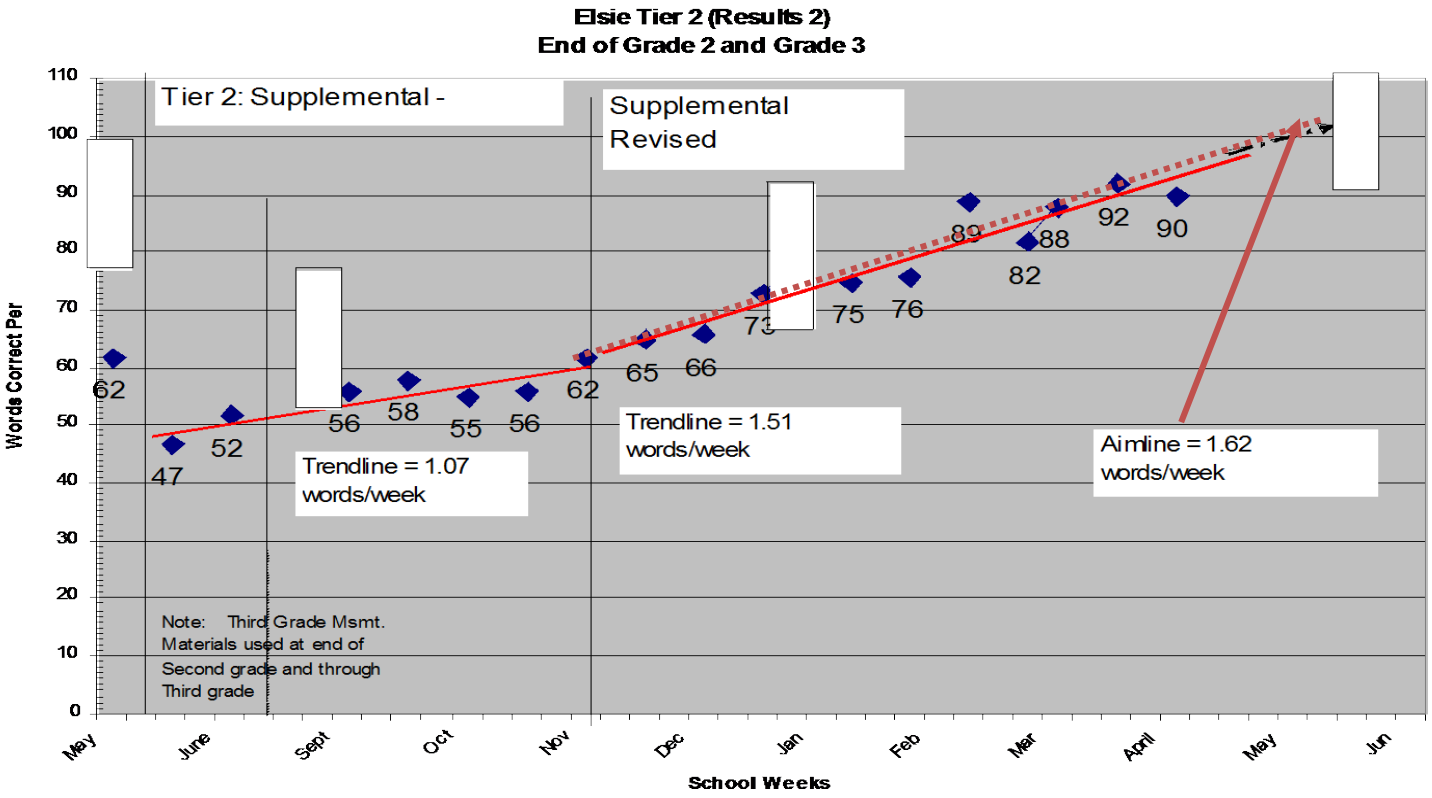
- Linking RtI to Intervention Decisions

Decision Rules: What is a "Good" Response to Intervention?

- ***Positive Response***
  - Gap is closing
  - Can extrapolate point at which target student(s) will "come in range" of target--even if this is long range
  - Level of "risk" lowers over time
- ***Questionable Response***
  - Rate at which gap is widening slows considerably, but gap is still widening
  - Gap stops widening but closure does not occur
- ***Poor Response***
  - Gap continues to widen with no change in rate.

Positive Response to Intervention



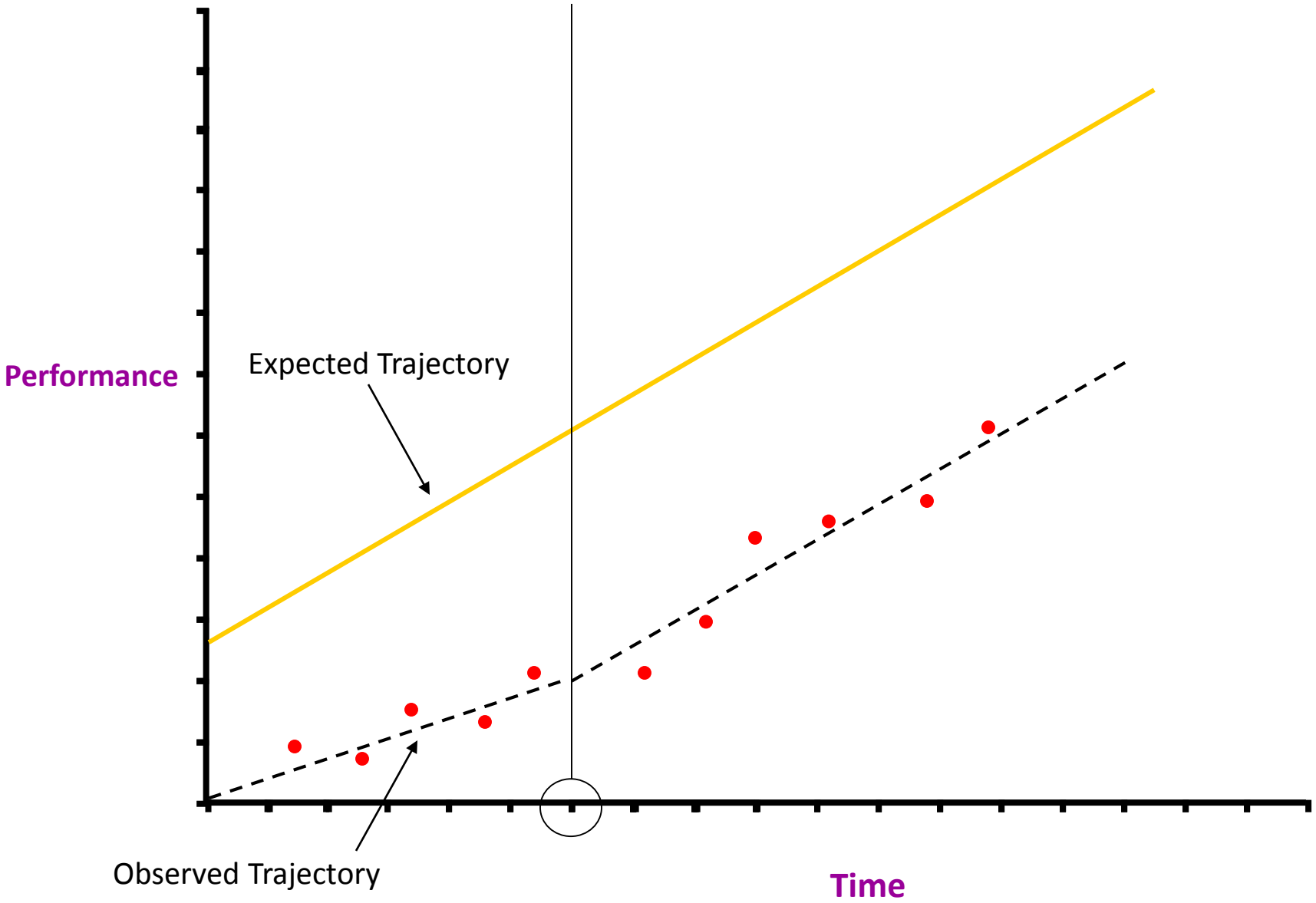

Elsie Tier 2 (Results 2)
End of Grade 2 and Grade 3
Tier 2: Supplemental -
Supplemental
Revised
Words Correct Per
110
100
90
80
70
60
50
40
30
20
10
0
62
47
52
56
58
55
56
62
65
66
73
75
76
89
82
88
92
90
Trendline = 1.07
words/week
Trendline = 1.51
words/week
Aimline = 1.62
words/week
Note: Third Grade Msmt.
Materials used at end of
Second grade and through
Third grade
May
June
Sept
Oct
Nov
Dec
Jan
Feb
Mar
April
May
Jun
School Weeks

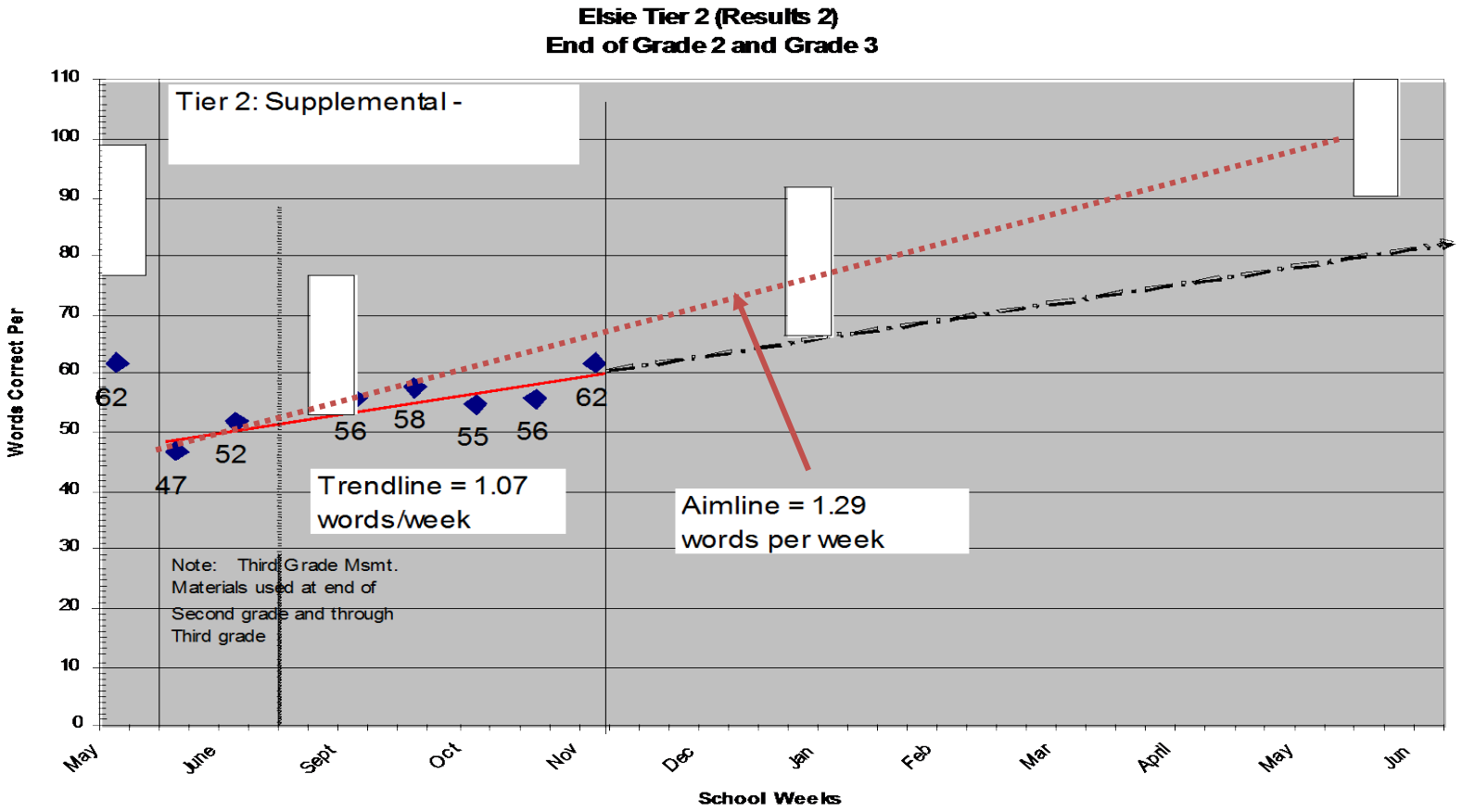
Good RtI

Decision Rules: What is a "Questionable" Response to Intervention?

- ***Positive Response***
  - Gap is closing
  - Can extrapolate point at which target student(s) will "come in range" of target--even if this is long range
- ***Questionable Response***
  - Rate at which gap is widening slows considerably, but gap is still widening
  - Gap stops widening but closure does not occur
  - Level of "risk" remains the same over time
- ***Poor Response***
  - Gap continues to widen with no change in rate.

Questionable Response to Intervention



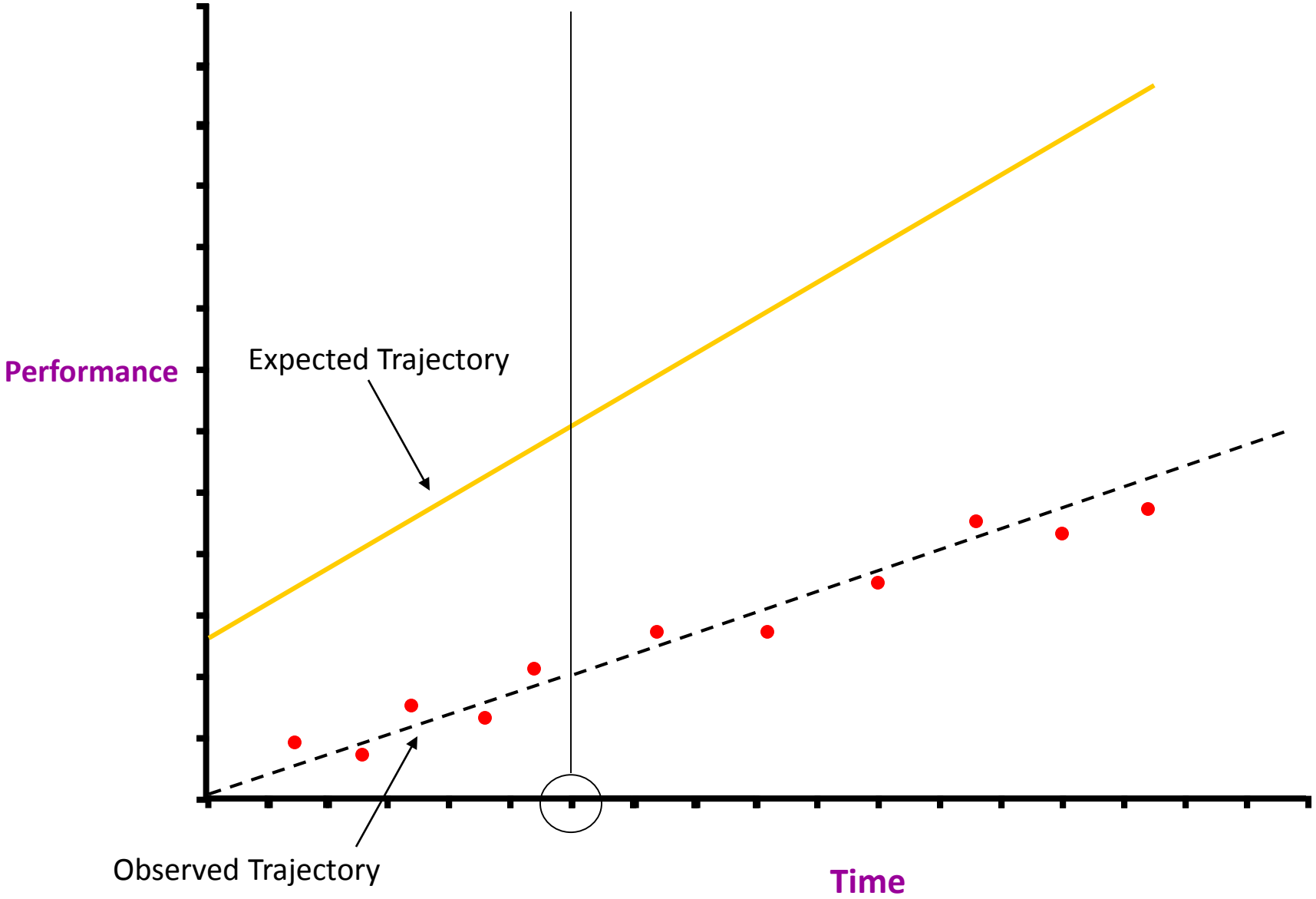


Questionable RtI

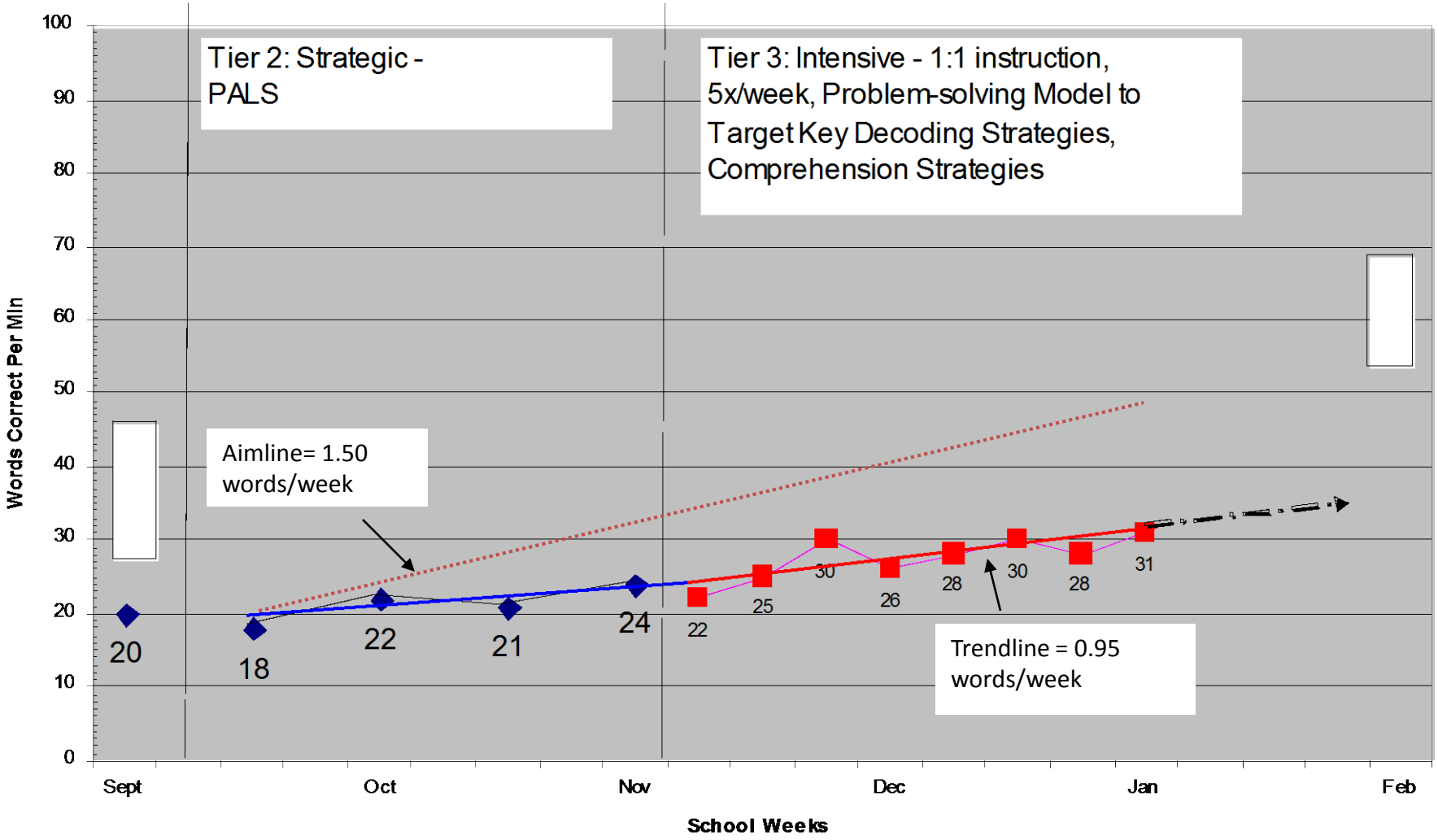
Decision Rules: What is a "Poor" Response to Intervention?

- ***Positive Response***
  - Gap is closing
  - Can extrapolate point at which target student(s) will "come in range" of target--even if this is long range
- ***Questionable Response***
  - Rate at which gap is widening slows considerably, but gap is still widening
  - Gap stops widening but closure does not occur
- ***Poor Response***
  - Gap continues to widen with no change in rate.
  - Level of "risk" worsens over time

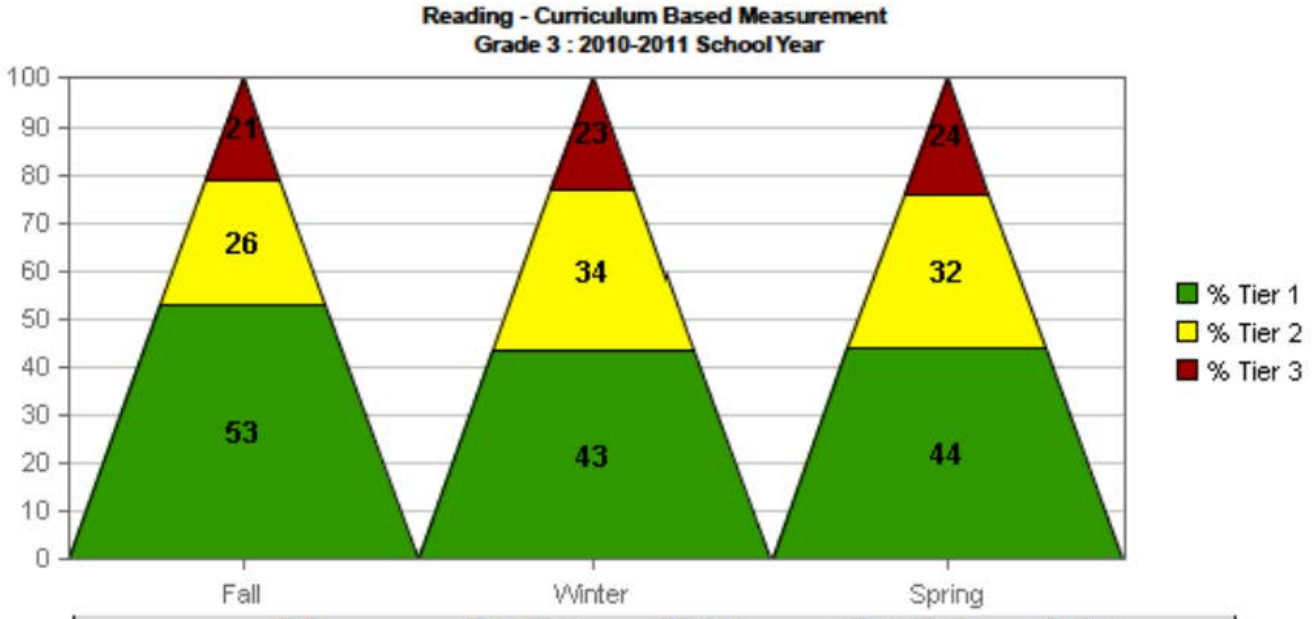
Poor Response to Intervention



Bart


Tier 2: Strategic - PALS
Tier 3: Intensive - 1:1 instruction, 5x/week, Problem-solving Model to Target Key Decoding Strategies, Comprehension Strategies
Aimline= 1.50 words/week
Trendline = 0.95 words/week
Words Correct Per Min
100
90
80
70
60
50
40
30
20
10
0
20
18
22
21
24
22
25
30
26
28
30
28
31
Sept
Oct
Nov
Dec
Jan
Feb
School Weeks

District Example



	Fall	Transition	Winter	Transition	Spring
Tier 3	81 (21%)	70 11 0	91 (23%)	76 11 0	92 (24%)
Tier 2	101 (26%)	19 73 8	133 (34%)	15 94 24	124 (32%)
Tier 1	206 (53%)	0 39 160	168 (43%)	0 18 146	170 (44%)
New Student		14		2	
Unscored		8		8	
Total Students	388		392		386

Note: Unscored also includes any students who may have been transferred.

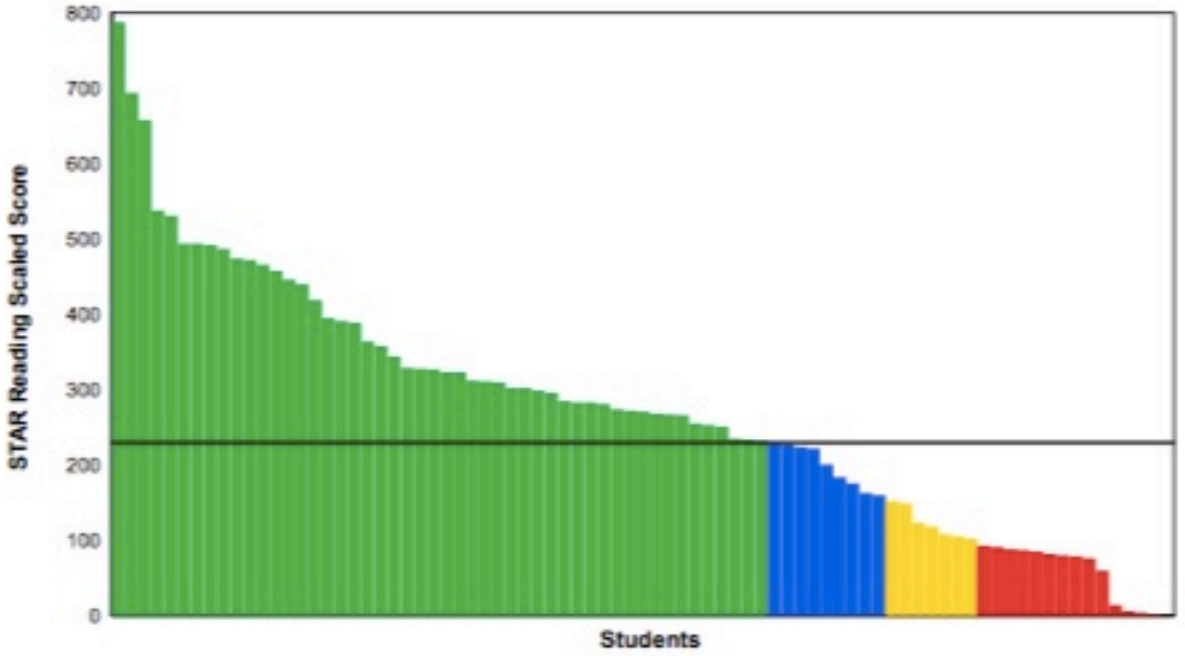
Fall Data

School: Centerville Elementary School

Reporting Period: 9/2/2015 - 9/30/2015 (Fall)

Report Options
Reporting Parameter Group: All Demographics [Default]

Grade: 2



Categories / Levels	Benchmark		Students	
	Scaled Score	Percentile Rank	Number	Percent
At/Above Benchmark				
At/Above Benchmark	At/Above 230 SS	At/Above 50 PR	50	63%
Category Total			50	63%
Below Benchmark				
On Watch	Below 230 SS	Below 50 PR	9	11%
Intervention	Below 156 SS	Below 30 PR	7	9%
Urgent Intervention	Below 97 SS	Below 15 PR	14	18%
Category Total			30	38%
Students Tested			80	

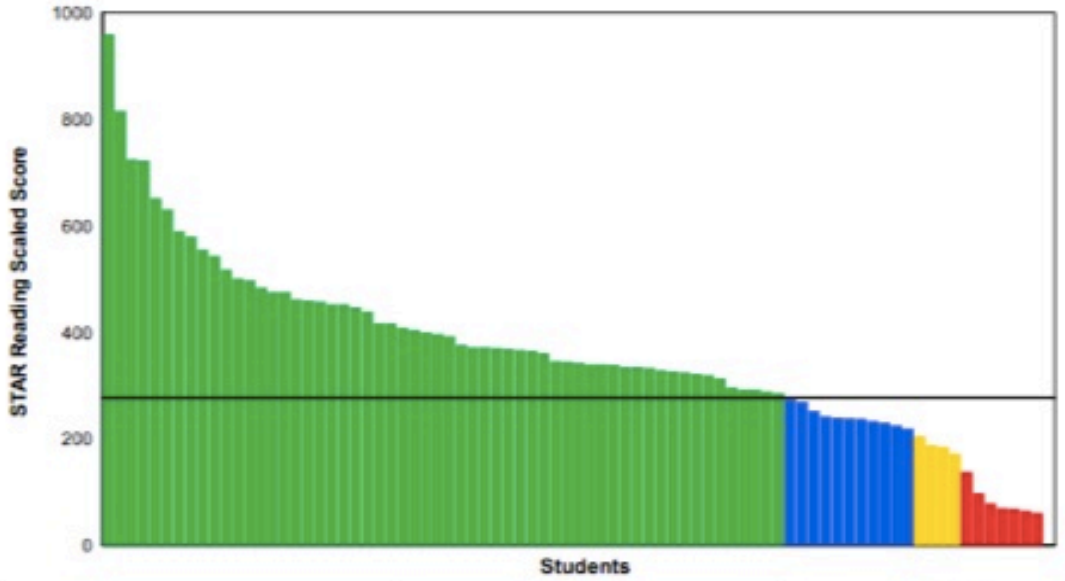
Winter Data

School: Centerville Elementary School

Reporting Period: 1/6/2016 - 1/22/2016 (Winter)

Report Options
Reporting Parameter Group: All Demographics [Default]

Grade: 2



Categories / Levels	Benchmark		Students	
	Scaled Score	Percentile Rank	Number	Percent
At/Above Benchmark				
At/Above Benchmark	At/Above 277 SS	At/Above 50 PR	58	73%
Category Total			58	73%
Below Benchmark				
On Watch	Below 277 SS	Below 50 PR	11	14%
Intervention	Below 207 SS	Below 30 PR	4	5%
Urgent Intervention	Below 142 SS	Below 15 PR	7	9%
Category Total			22	28%
Students Tested			80	

Fall/Winter Comparisons

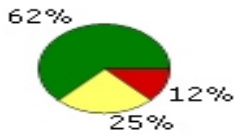
	Fall	Winter	
At/Above Proficiency	63	73	+10
On Watch	11	14	+3
Intervention	9	5	-4
Urgent Intervention	18	9	-9

Class Recommended Level of Instruction Report

District: Your District	**School:** Your School	**Teacher:** Teacher Name
Grade: Kindergarten	**Probe:** All	**Student:** All
Assessment: All	**School Year:** 2004-2005	**Date/Time:** 6/20/2005 8:40 AM

Class List	Assessment 1	Assessment 2	Assessment 3	Assessment 4
Student A	Initial	Initial	Initial	Initial
Student B	Strategic	Initial	Initial	Initial
Student C	No Level	No Level	Intensive	Intensive
Student D	Initial	Initial	Initial	Strategic
Student E	Initial	Initial	Initial	Initial
Student F	Strategic *	Strategic	Initial	Initial
Student G	Initial	Strategic	Initial	Initial
Student H	Initial	Strategic	Initial	Initial
Student I	Initial	Initial	Removed	Removed
Student J	Initial	Initial	Initial	Initial
Student K	Initial	Strategic	Initial	Initial
Student L	Strategic	Strategic	Strategic	Initial
Student M	Initial *	Initial *	Initial	Initial
Student N	Strategic	Initial	Initial	Initial
Student O	Initial	Initial	Initial	Initial
Student P	Initial	Initial	Initial	Initial
Student Q	Strategic	Strategic	Initial	Initial
Student R	Intensive	Strategic	Strategic	Initial
Student S	Intensive	Strategic	Strategic	Initial

* Score was not achieved in this class. Student is not represented in pie graph.



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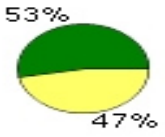

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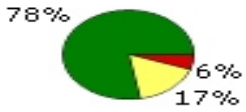

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