

Using Student Growth Data to Improve Teaching and Learning



CAO Meeting
October 2013

This Presentation

IS

Using Student Growth (VAM) Data to improve instructional programs

IS NOT

VAM Scores or ratings used for teacher, principal or assistant principal evaluations

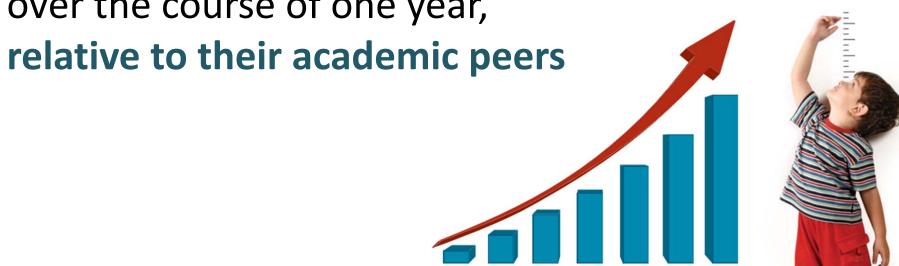
Guiding Questions

- How do I know if the each of the students in my school make a year's worth of growth?
- How can I measure student growth even for students who do not change proficiency categories?
- How can you support teachers in providing intervention for the students who need extra support?
- How can you support struggling (teams of) teachers?
- How can you provide for differentiated support for teachers?

GROWTH VS. PROFICIENCY

What is Student Growth?

- How much academic progress students are making by measuring growth between two points in time
- Student growth indicates the amount of growth a student made in a testing subject over the course of one year,



A More Complete Picture of Student Learning

Growth

(Progress)

Measure of student academic progress between two points in time

Proficiency

(Status)



Measure of student performance at one point in time

A More Complete Picture of Student Learning

Growth

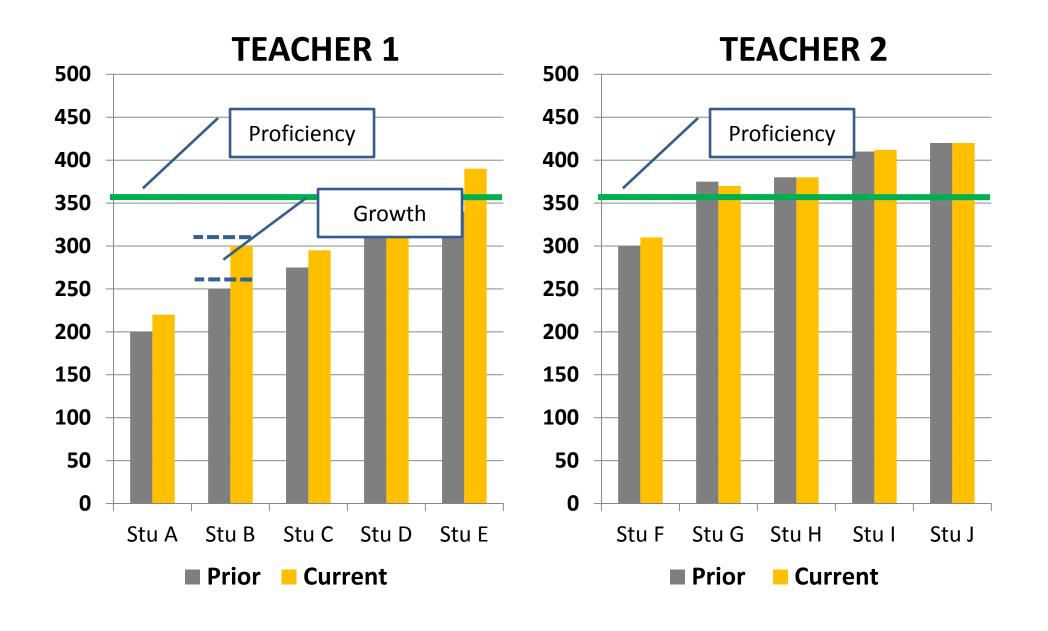
- > Compare student to own prior performance
- > Progress between points
- > Critical to student success



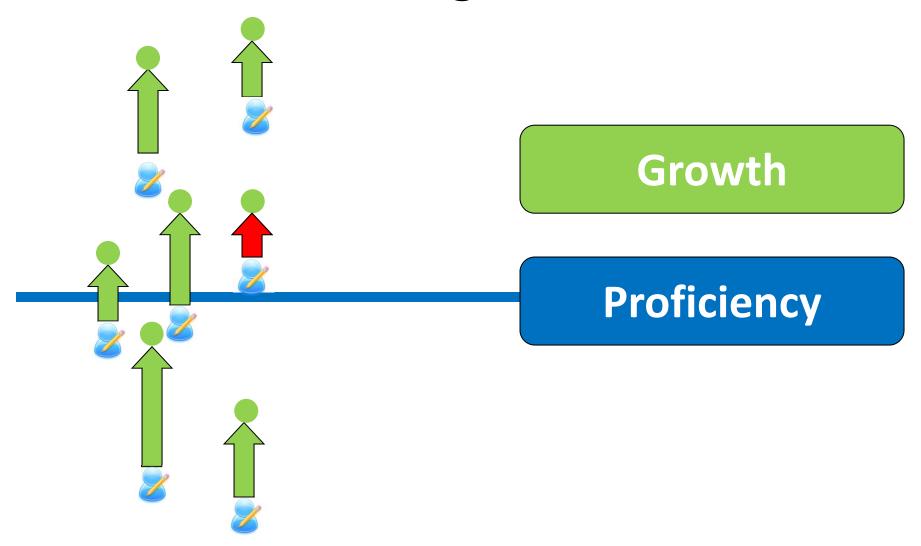
Proficiency

- > Compare student to a standard
 - > Performance at a point in time
- > Critical to postsecondary opportunity

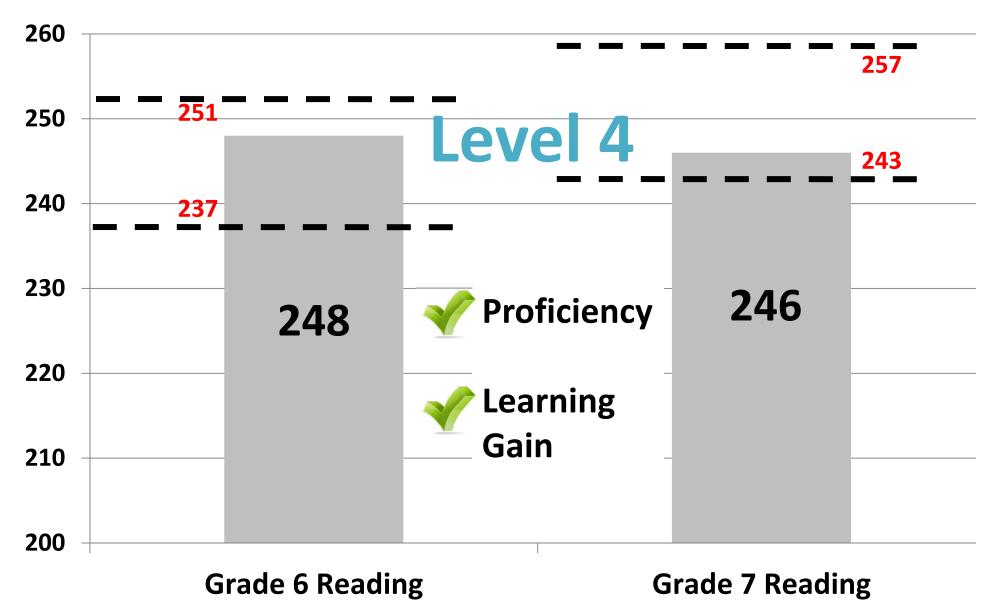
Growth vs. Proficiency



Growth & Proficiency Understanding the Difference



Growth & Learning Gains Understanding the Difference

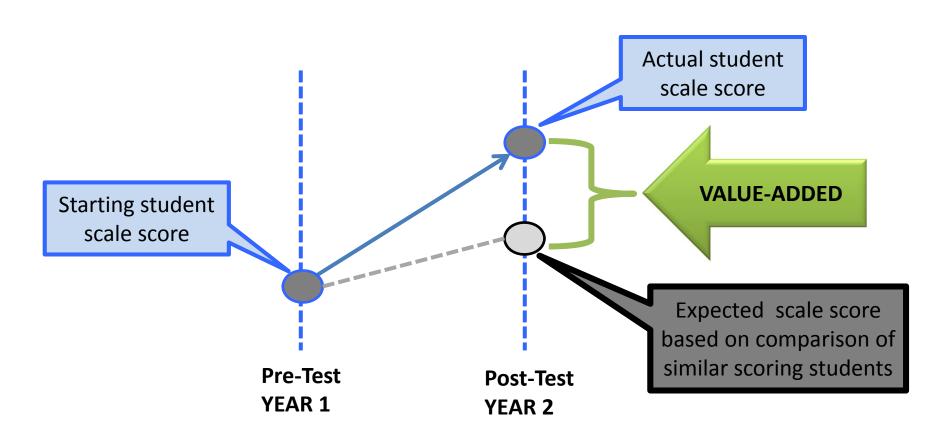


VALUE-ADDED MODEL

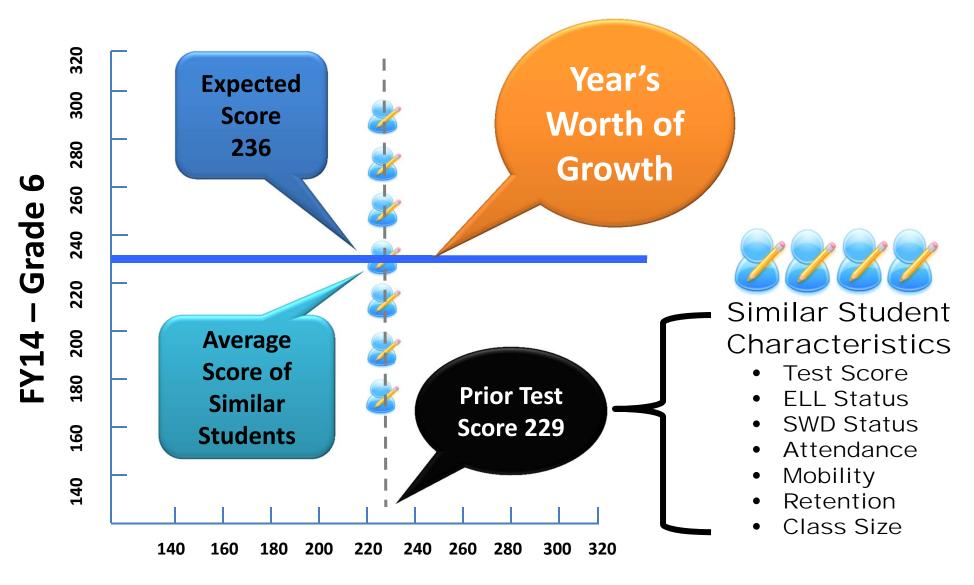
What is the Value-Added Model of Student Learning Growth?

The difference between

Actual Test Score and Expected Test Score



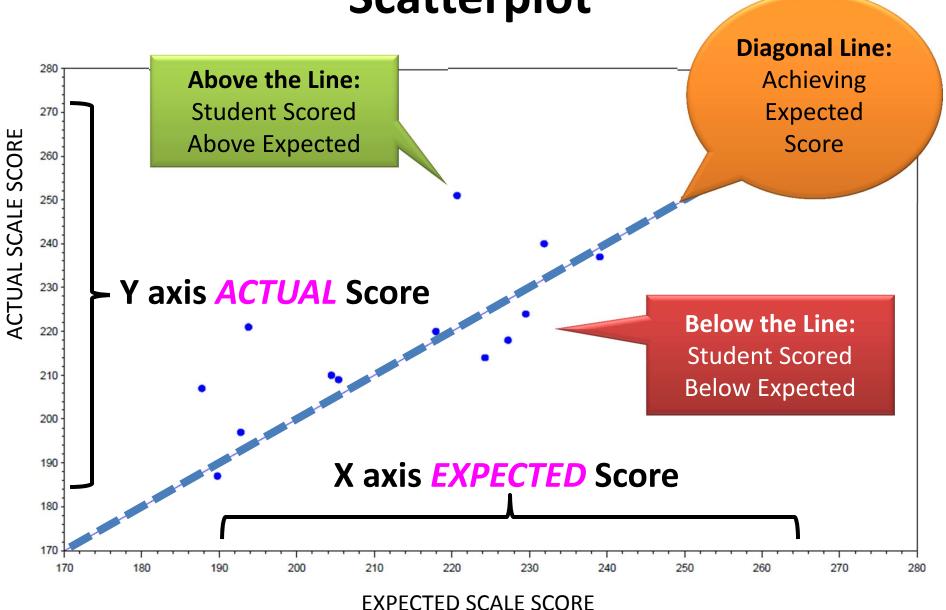
How is the Expected Score Determined?



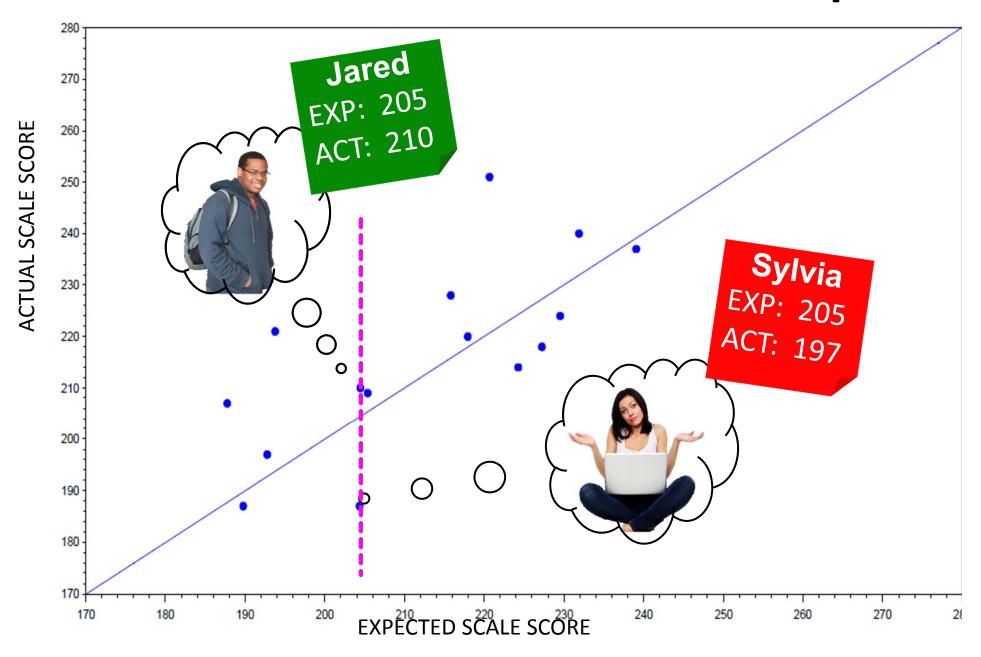
FY13 - Grade 5

SCATTERPLOTS

Teacher State Growth Data Scatterplot



Teacher State Growth Data Scatterplot

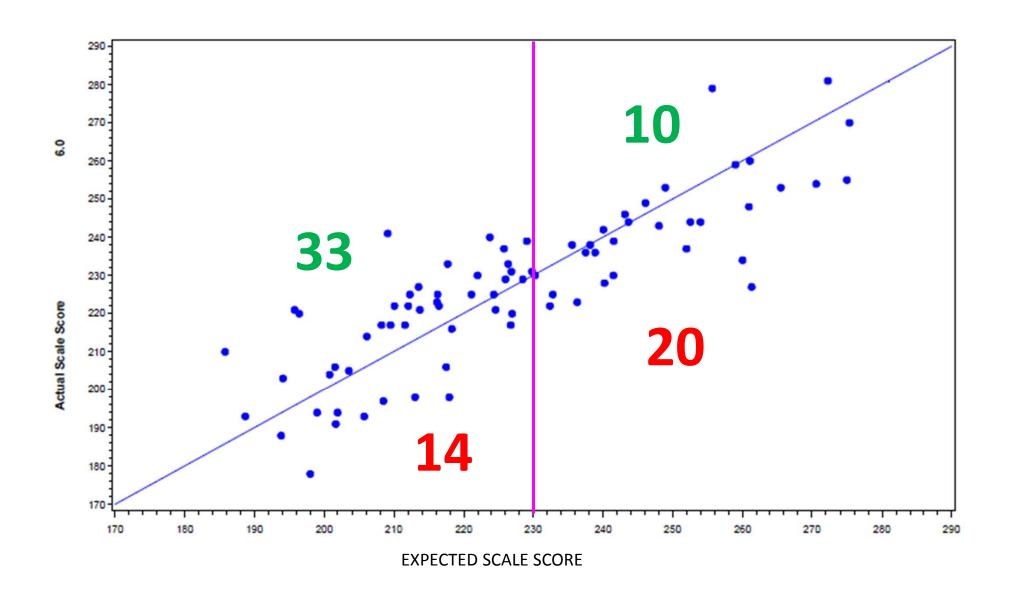


Teacher State Graowth Data Scatterplot

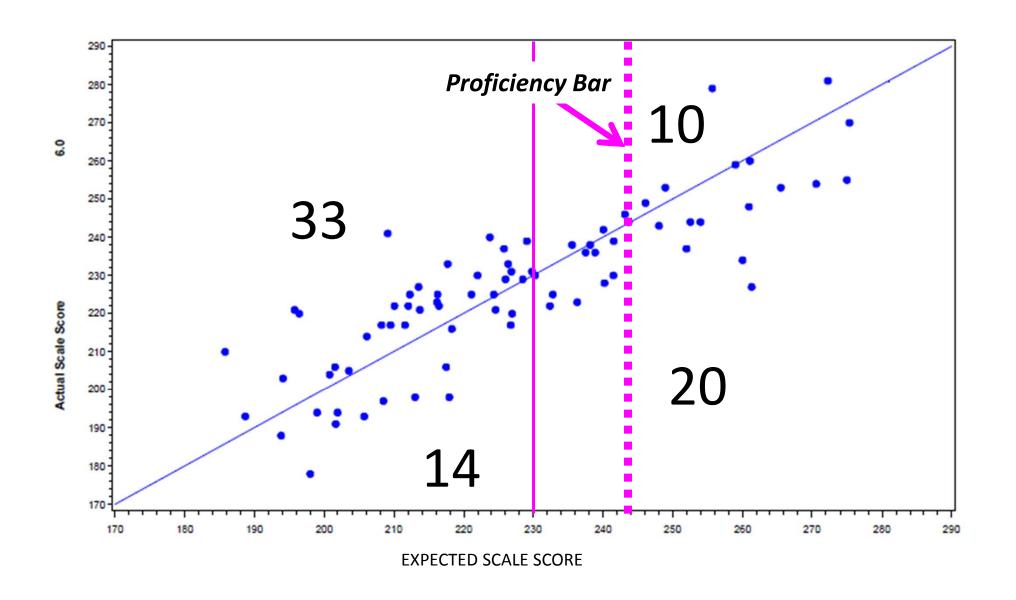
	ievement Levels fo					
Grade	Level 1	Level 2	Level 3	Level 4	Level 5	
3	140-182	183-197	198-213	214-228	229-260	. /
4	155-196	197-209	210-223	224-239	240-271	
5	163-204	205-219	220-233	234-246	247-279	
6	170-212	213-226	227-239	240-252	253-284	
7	179-219	220-233	234-247	248-260	261-292	
8	187-228	229-240	241-255	256-267	268-298	
220 210 200 190	•				•	
170	180 190	200 21	0 220	230 240	250 260	270 280

EXPECTED SCALE SCORE

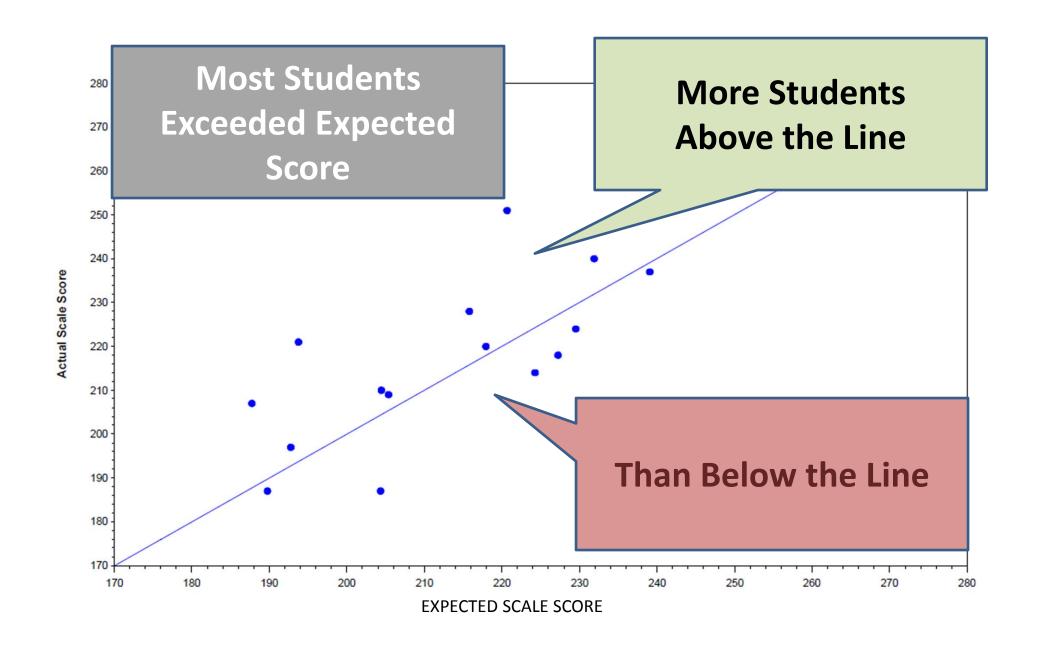
Teacher State Growth Data Scatterplot



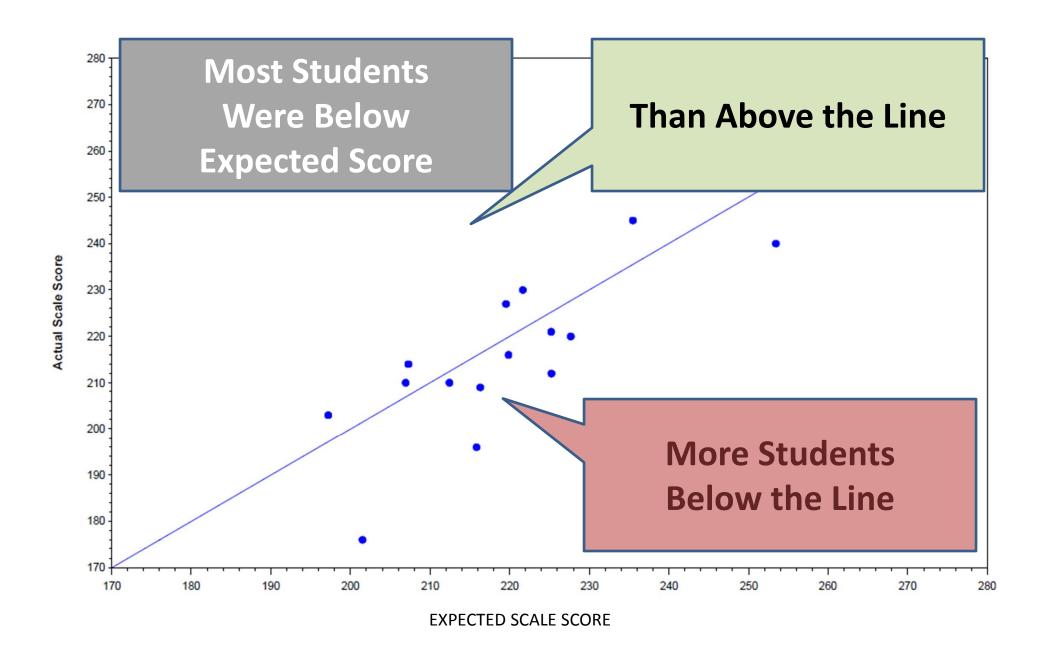
Teacher State Growth Data Scatterplot



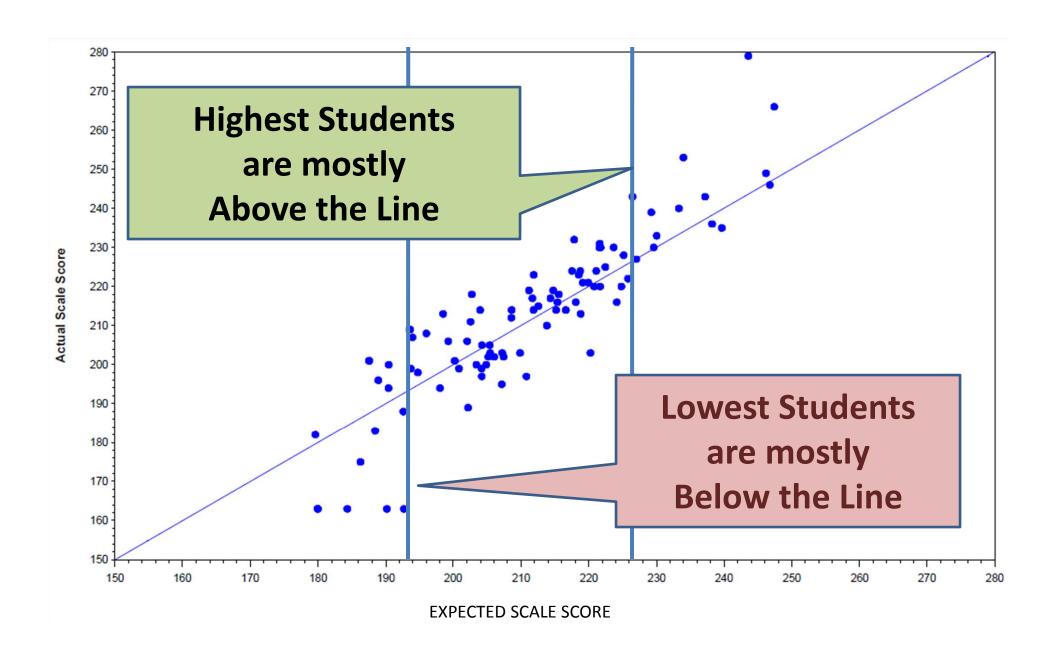
Example 1: Above Average Growth



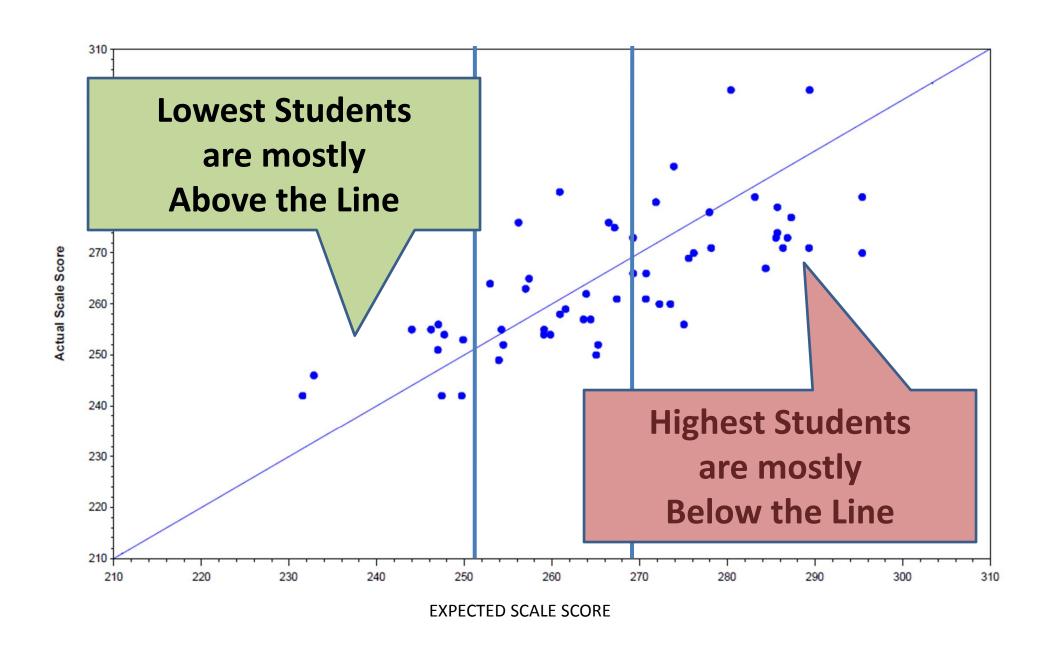
Example 2: Below Average Growth



Example 3: Possibly Refocus Instruction



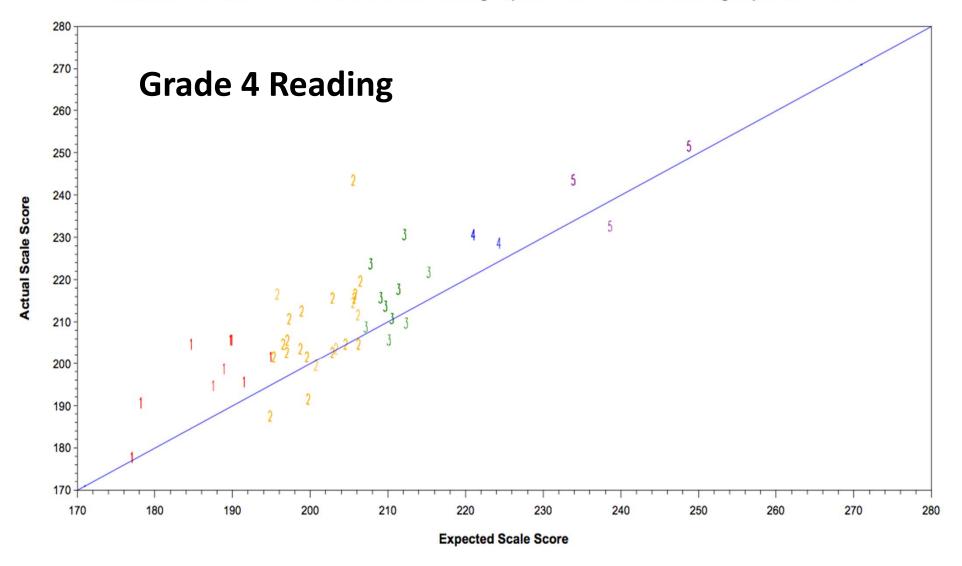
Example 4: Possibly Refocus Instruction



SCATTERPLOTS WITH PRIOR LEVELS

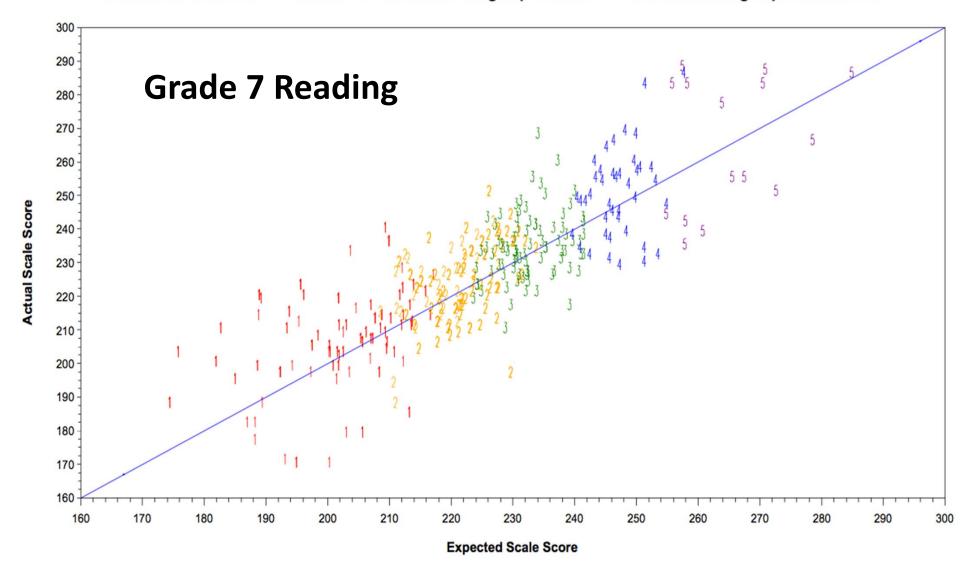
Scatterplots with Prior Levels

Number of Students XX Number of Students Meeting Expectation: XX ercent Meeting Expectation: 88%



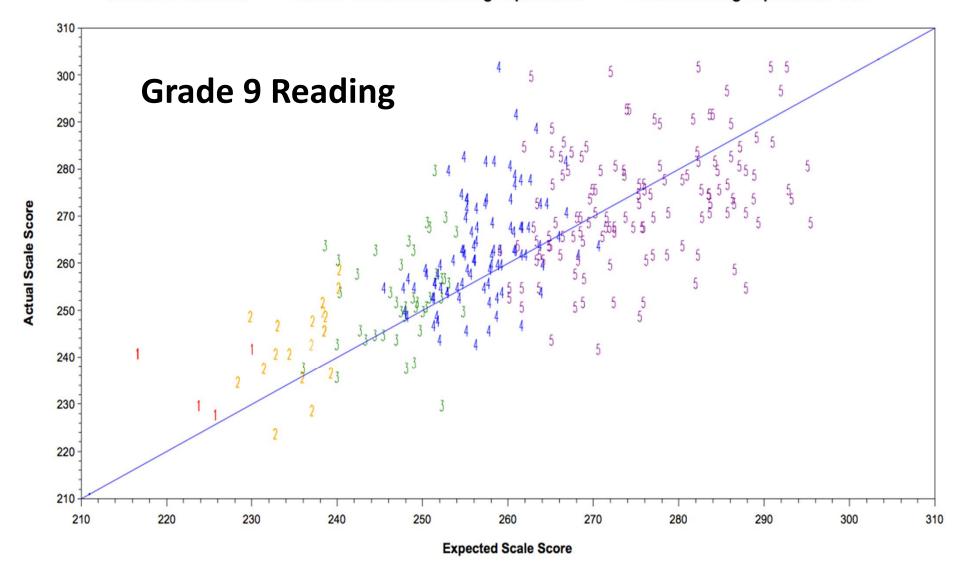
Scatterplots with Prior Levels

Number of Students: XX Number of Students Meeting Expectation: XX Percent Meeting Expectation: 63%



Scatterplots with Prior Levels

Number of Students: XX Number of Students Meeting Expectation: XX Percent Meeting Expectation: 62%



STUDENT ROSTERS

Sample Teacher Roster Same Students as Scatterplot

List of Students Having FY2013 VAM Data

School Type: EL School Name: Sample School

Teacher: Sample Teacher

Subject	Grade	Student ID	Last Name	First Name	FY2012 Scale Score	FY2013 Scale Score	Predicted FY2013 Scale Score	Difference	Met Expectation	SAR Gain
READ	5	99999999	LAST	FIRST	243	257	246.78	10.22	Yes	1
		99999999	LAST	FIRST	232	256	237.54	18.46	Yes	1.2
		99999999	LAST	FIRST	269	253	265.66	-12.66	No	1
		99999999	LAST	FIRST	236	257	244.28	12.72	Yes	1.2
		99999999	LAST	FIRST	258	260	258.75	1.25	Yes	1
		99999999	LAST	FIRST	214	242	220.64	21.36	Yes	1.1

EXCEL STUDENT DETAILS LISTING

Student Details Listing Sortable Excel File

- Pretest Score
- Posttest Score
- Expected Score
- Difference
- Met Expected Score
- State Gain Read
- State Gain Math
- Prev Year Read Level
- Prev Year Math Level

- Race
- Sex
- FRL
- ELL Code
- ELL Less Than 1 Year
- State SWD Code
- Primary Exceptionality

What is the District / State Percent Meeting Expected Score?

	District	State	
Subject	Percent	Percent	
Reading	54%	50%	
Math	54%	50%	
Algebra	42%	50%	
All Above	53%	50%	

QUESTIONS AND ACTION STEPS

Planned Response to the Data

- Did the students in my school make a year's worth of growth across content areas?
- Did the students in my school make a year's worth of growth at each grade level?
- Can I compare results from different grades to draw summary conclusions?
- Are our students growing toward meeting state standards?
- Can I measure student growth even for students who do not change proficiency categories?

Planned Response to the Data

- How will you leverage and recognize the success of highly effective (teams of) teachers?
- How will you support struggling (teams of) teachers?
- How will you support teacher teams in providing intervention for the students who need extra support?
- How will you arrange for differentiated professional development to support all teachers?
- How can professional learning be more focused on instruction and based on specific, identified needs?

Tracking Student Growth

DQ1: Providing Clear Learning Goals and Scales

http://www.palmbeachschools.org/academics/documents/DQElement1PacketforTeachers.pdf

- Learning Goals state what students will know
 & be able to do
- Scales describe levels of understanding & performance for those targets

Score 4.0: In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught.

Score 3.0: No major errors or omissions regarding any of the information and/or processes (simple or complex) that were explicitly taught.

Score 2.0: No major errors or omissions regarding the simpler details and processes but major errors or omissions regarding the more complex ideas and processes.

Score 1.0: With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Score o.o: Even with help, no understanding or skill demonstrated.