Florida Department of Education Value-added Model (VAM)

FY2012

Using Student Growth in Teacher and School Based Administrator Evaluations



HOW DID WE GET HERE?

Established by Student Success Act (SB 736)
 Educator Evaluation System

http://www.flsenate.gov/Committees/BillSummaries/2011/html/0736ED

- Teacher and School Administrator Evaluations
 - Professional Practice
 - Student Learning Growth
- FLDOE Student Growth
 Implementation Committee (SGIC)

http://www.fldoe.org/committees/sg.asp



Established by Student Success Act (SB 736) Teacher Evaluation System

Instructional Practice (IP)

- (4) Highly Effective
- (3) Effective
- (2) Needs Improvement
- (1) Unsatisfactory

Student Learning Growth (SLG)

- (4) Highly Effective
- (3) Effective
- (2) Needs Improvement
- (1) Unsatisfactory

2012 Weights

Teacher

IP = 60%/SLG = 40%

Administrator

IP = 50%/SLG = 50%

Final Rating

4-HE

3-Eff

2-NI

1-U

FY2012 Implementation

- Required by law
- First time used in evaluations
- Based only on FCAT 2.0 Reading/Math
- No Algebra 1 EOC student growth scores
- No teacher or school administrator will receive a student growth rating less than *Effective*

IMPORTANT!

It is important to note that measures used in the Florida School Grading system, **student proficiency** and **learning gains**, are not a part of the Florida Value-added Model of student learning growth.

Student learning growth is based on the actual scale score on FCAT 2.0 tests. Even if students already score in Achievement Levels 3-5, they still have **room to grow**.

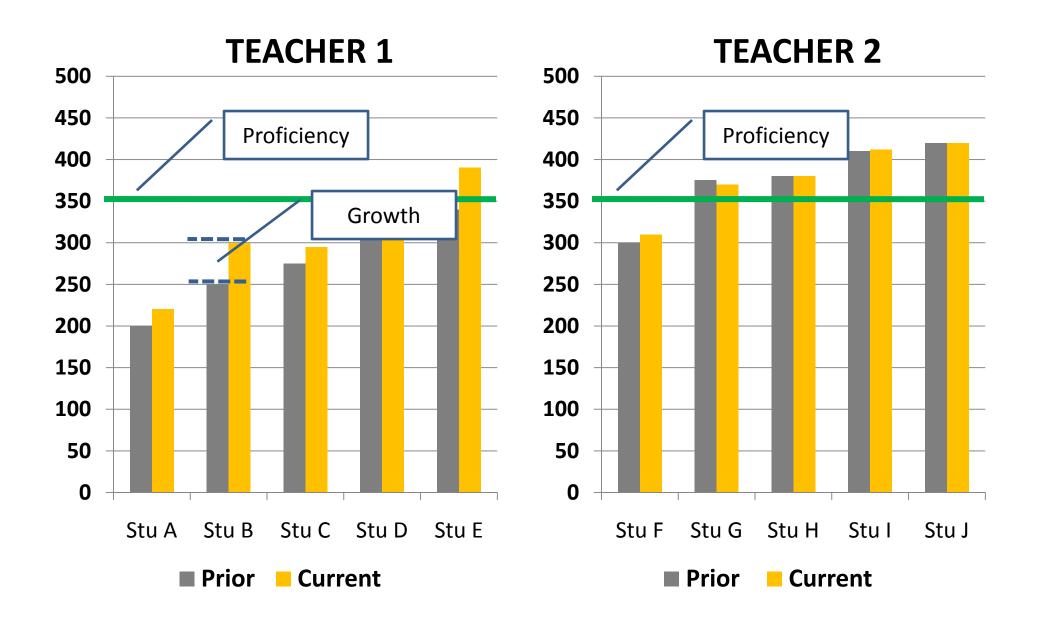


Growth (Progress)

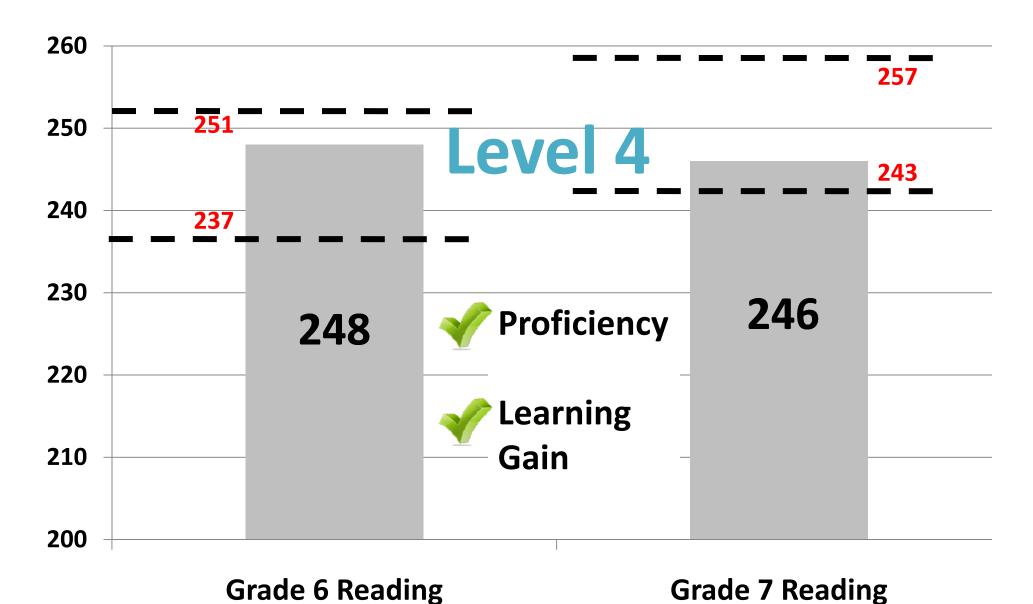
Growth models measure the amount of academic progress students make between two points in time

Proficiency (Status)

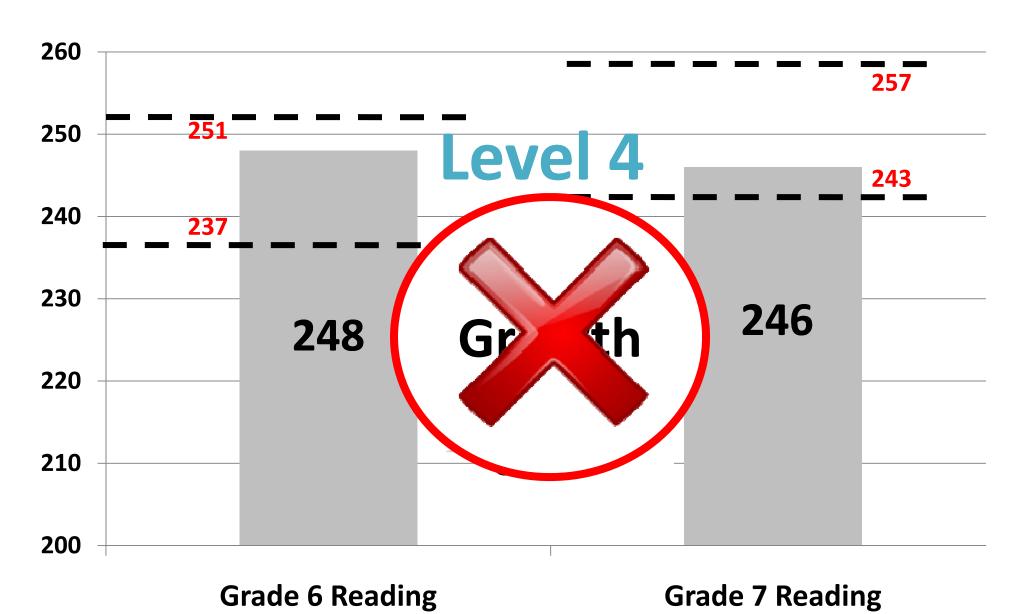
A method for measuring how students perform at one point in time



Growth vs. Learning Gains



Growth vs. Learning Gains



A More Complete Picture of Student Learning

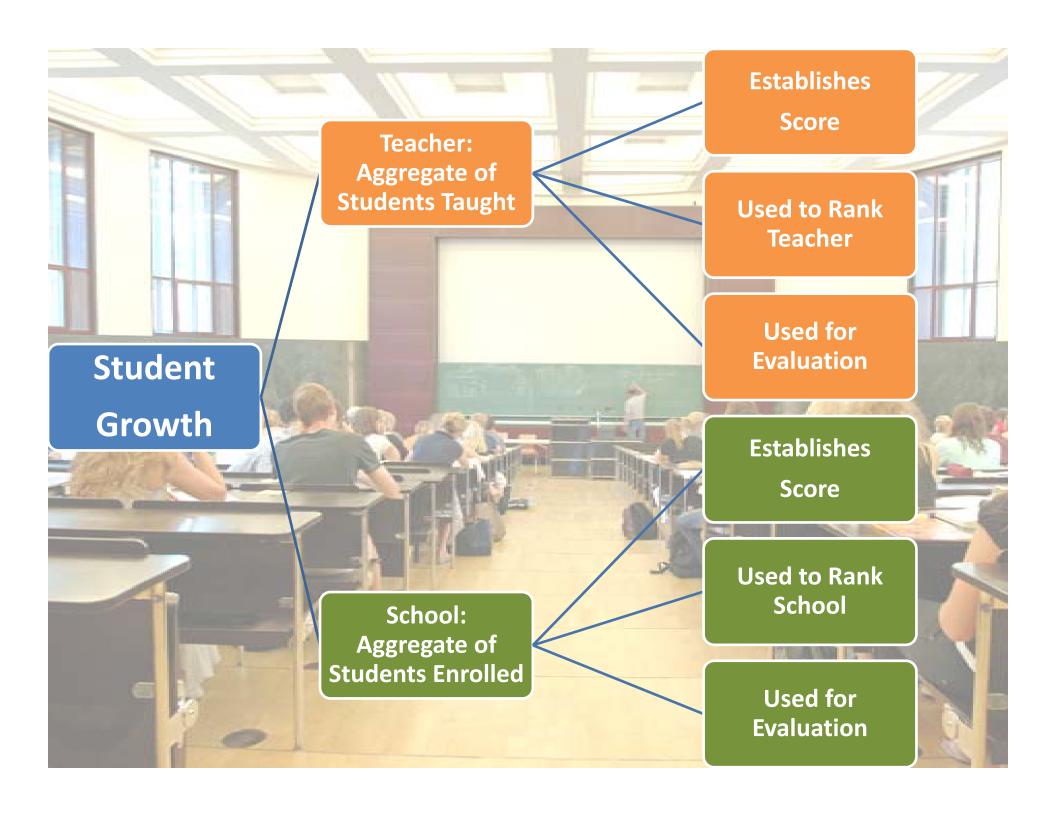
Growth

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

Proficiency



- > Compare student to a standard
- > Does not consider student characteristics
 - > Performance at a point in time
- > Critical to postsecondary opportunity



VAM & Student Learning Growth

 Contribution to a change in a student's achievement on standardized test



 Calculated from a measure of student learning growth over time

$$\mathbf{y}_{ti} = \mathbf{X}_{i}\boldsymbol{\beta} + \sum_{r=1}^{L} \mathbf{y}_{t-r,i}\gamma_{t-r} + \sum_{q=1}^{Q} \mathbf{Z}_{qt}\boldsymbol{\theta}_{q} + e_{t}$$

What is the Student Learning Growth Score?

The difference between Current test score and Predicted test score

What is the Predicted Student Score?

What is the **Predicted Student Score?**

Student score expected based on prior tests and other characteristics

FLDOE Value-Added Model Variables determining predicted score

OTHER CHARACTERISTICS?

FLDOE Value-Added Model Variables determining predicted score

- Two or more years of prior achievement scores
- Gifted status
- Class size
- Student Attendance (Days)
- Mobility (number of transitions)
- Difference from modal age in grade (indicator of retention)
- The number of subject-relevant courses in which the student is enrolled
- Homogeneity of entering test scores in the class

FLDOE Value-Added Model

Variables determining predicted score

- Students with Disabilities (SWD) status
 - Language impaired
 - Hearing impaired
 - Visually impaired
 - Emotional/behavioral
 - Specific learning disability
 - Dual sensory impaired
 - Autism spectrum disorder
 - Traumatic brain injury
 - Other health impaired
 - Intellectual disability



- English Language Learner (ELL) status
 - LY

FLDOE Value-Added Model

Student Success Act specifically excludes these student characteristics

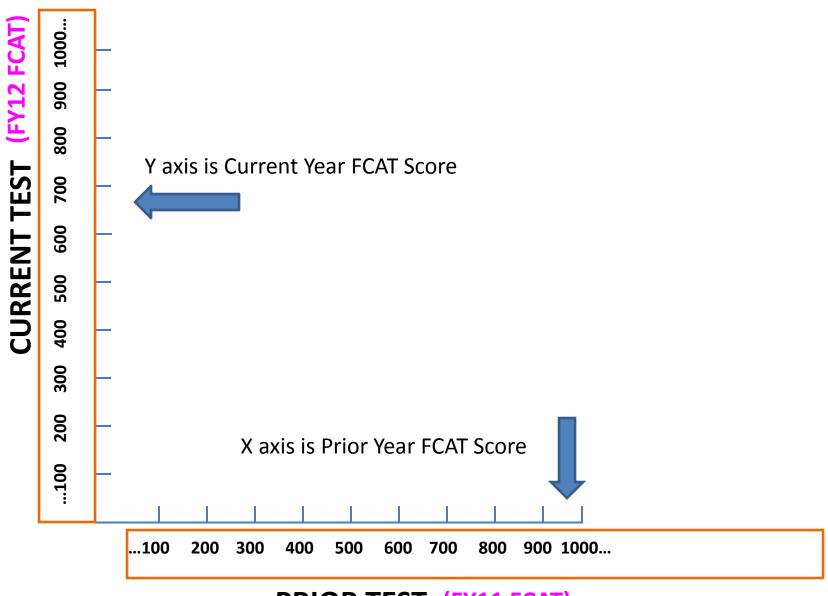
- Gender
- Race
- Ethnicity
- Socioeconomic status



What is the Student Learning Growth Score?

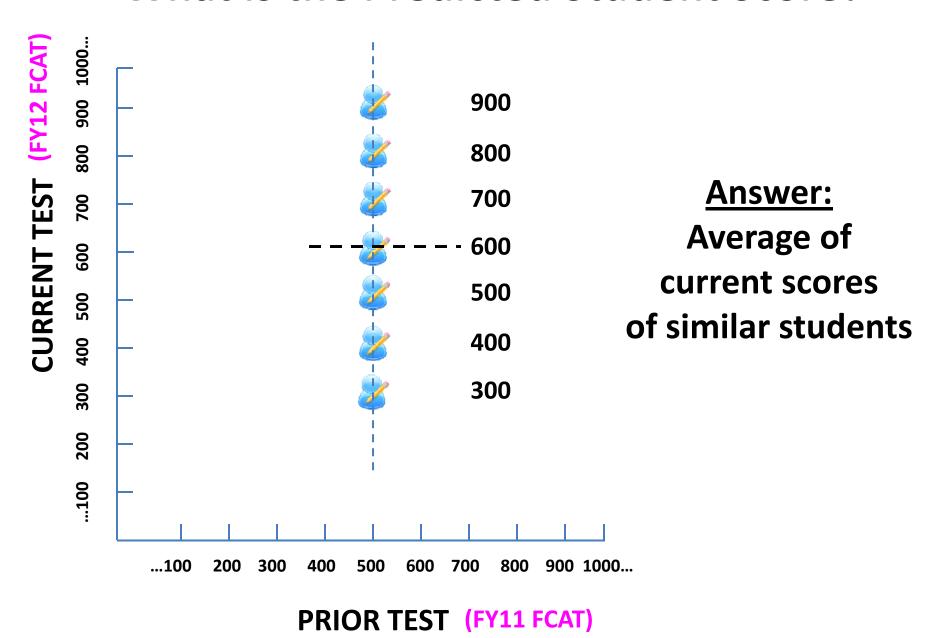
Let's take a look at the predicted score

What is the Predicted Student Score?

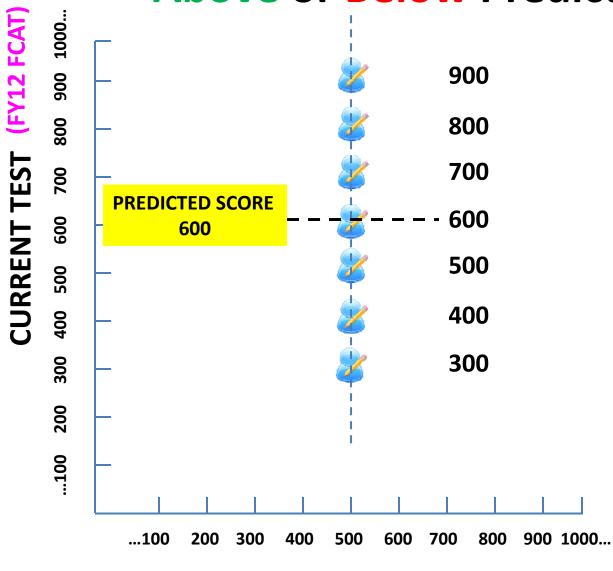


PRIOR TEST (FY11 FCAT)

What is the Predicted Student Score?

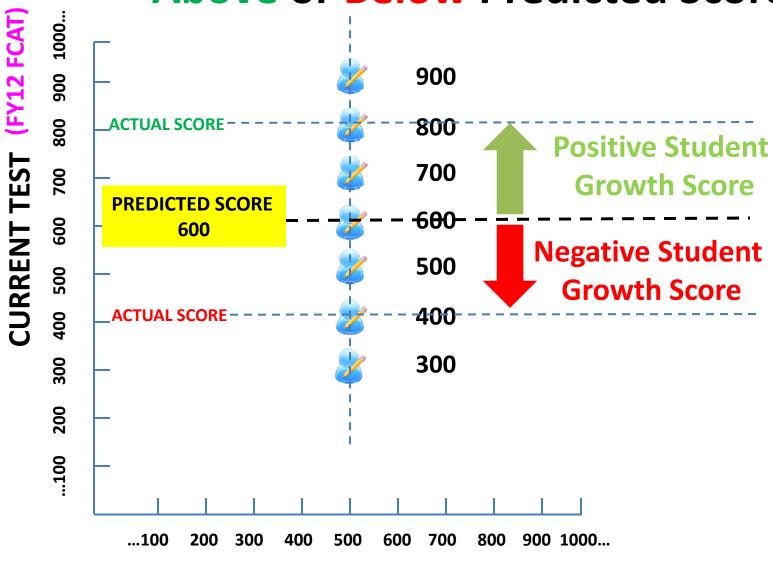


Student Learning Growth is the Amount Above or Below Predicted Score

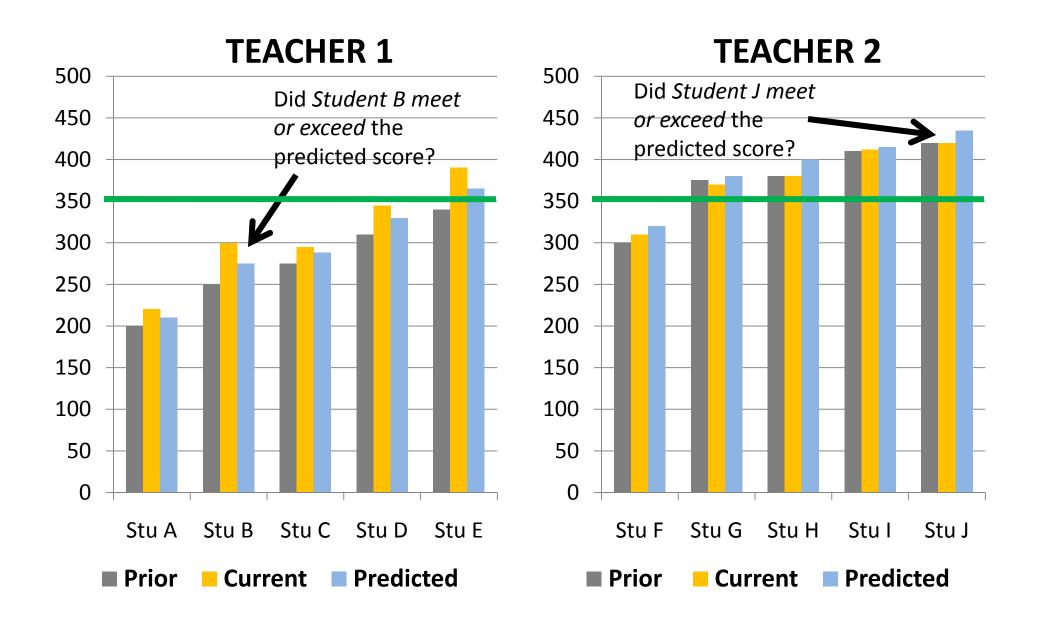


PRIOR TEST (FY11 FCAT)

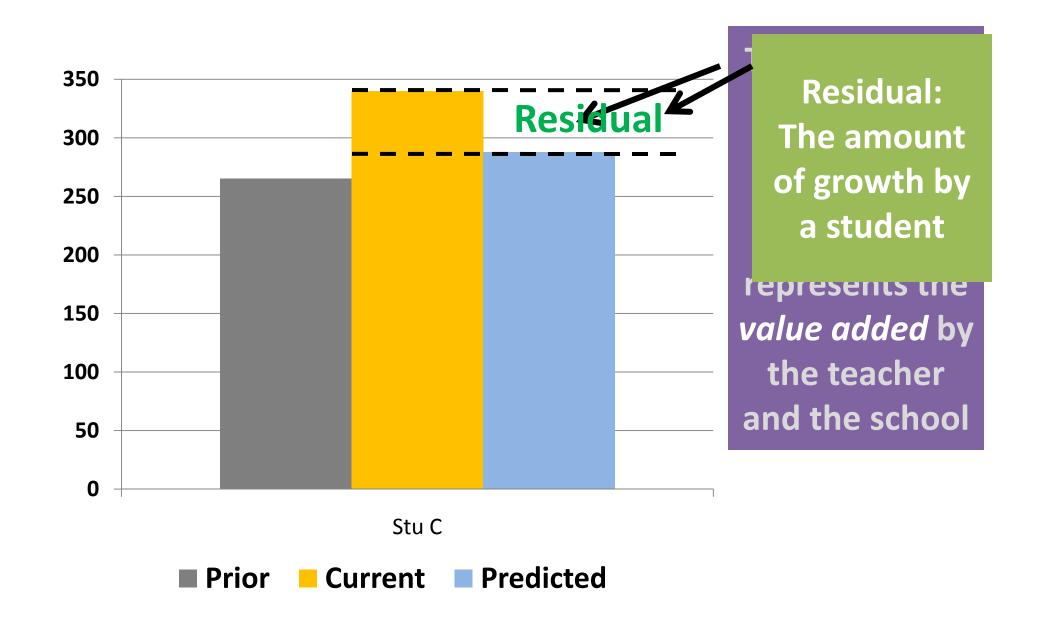
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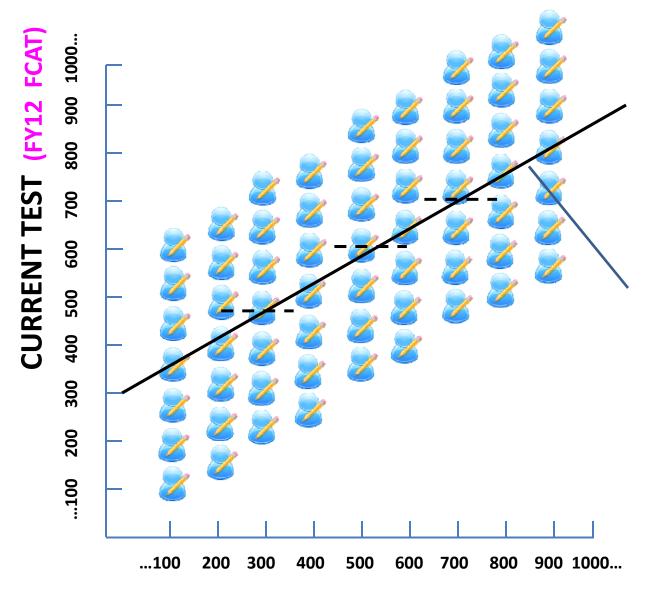
PRIOR TEST (FY11 FCAT)



Student Growth



Determining the Student Learning Growth by School



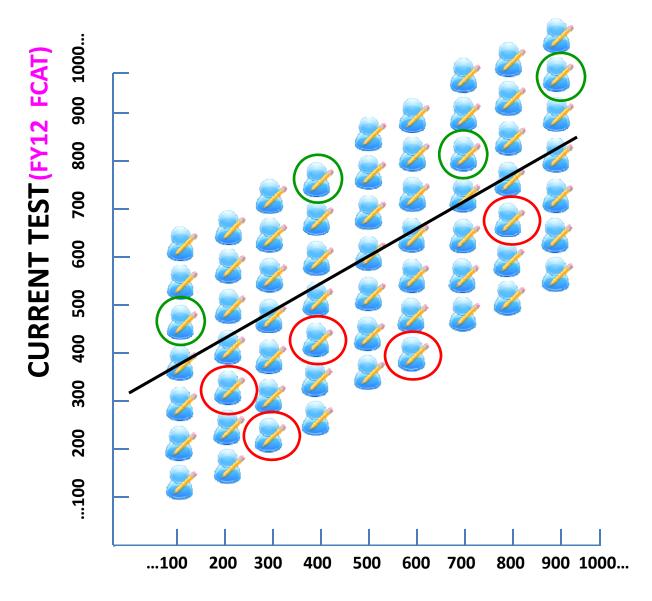
Example:
All Grade 5
Reading Students
in Florida

The diagonal line is the predicted growth observed among similar students



PRIOR TEST (FY11 FCAT)

Determining the Student Learning Growth by School



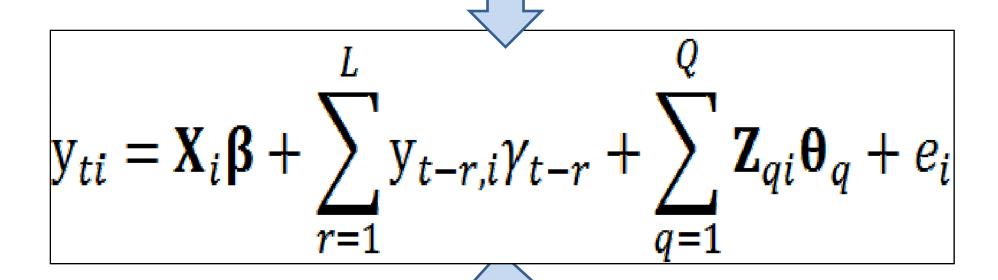
The difference between the predicted and actual scores is the growth.

The average of the growth of students within a school produces the school score for a subject/grade.



PRIOR TEST (FY11 FCAT)

Student Growth Scores



Teacher VAM

School Component

Student Growth Scores Teacher/School

 State calculates scores for each grade and subject separately

 Therefore, a teacher/school may have more than one score

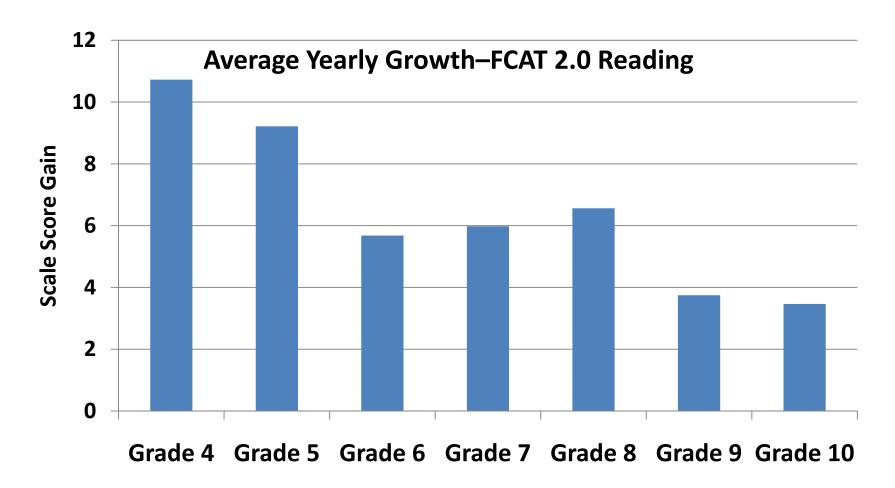
Student Growth Scores Teacher/School

Teacher of both 9th and 10th grade students

Grade	Subject	Student Count	Teacher VAM
9	Two		6.04
10	Differe	ent 5	-0.08
	Score	es	

Comparing Scores

- Comparing scores across subjects/grades
- FCAT 2.0 scale has inconsistencies



Common Score

- State creates scores on common scale
- Example: Jane Doe teaches intensive reading

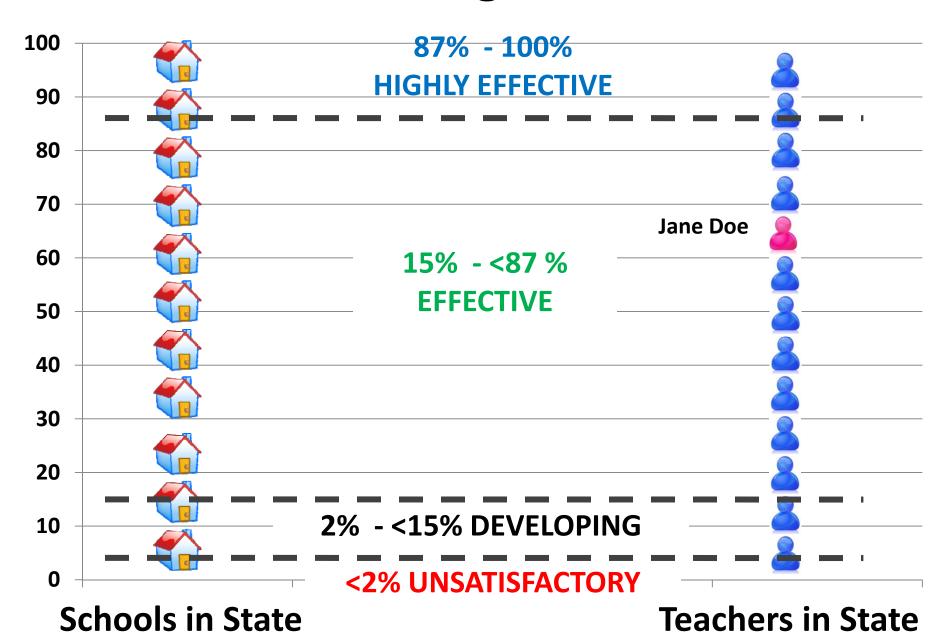
Grade	Subject	Student Count	Teacher VAM	Common Score
9	Reading	18	6.04	1.07
10	Reading	16	-0.08	-0.01

Common Score

- State creates scores on common scale
- Example: Jane Doe teaches intensive reading

Grade	Subject	Student Count	Teacher VAM	Common Score
9	Reading	18	6.04	1.07
10	Reading	16	-0.08	-0.01
	СО	.052		

Ranking Scores



Jane Doe: Teacher Example

- 1. Jane Doe's common score is 0.052
- 2. This score is ranked among all teachers in the state with a Reading score
- 3. This gives Jane a **percent rank of 68.48** when compared to all other teachers in the State
- 4. This percent rank translates to "Effective"

Percent Ranks and Ratings

- State generates a percent rank for each teacher, school, district
 - —Reading score is ranked among all Reading scores in the state (Grades 4-10)
 - -Math score is ranked among all Math scores in the state (Grades 4-8, No Algebra)
 - Reading + Math score is ranked among Reading +
 Math scores in the state
- Percent ranks are placed on the District Student Growth Rating Scale

District Evaluation System Implementation Plan

Teachers

- FCAT Teachers use teacher VAM score for students of grade/subjects taught
- Non-FCAT Teachers use combined reading/math school score
- Teacher assigned to 2 schools, use weighted average of 2 schools combined reading/math scores
- Teacher assigned to more than 2 schools, use District reading/math score combined

Administrators

 Principals & Assistant Principals use combined reading/math school score

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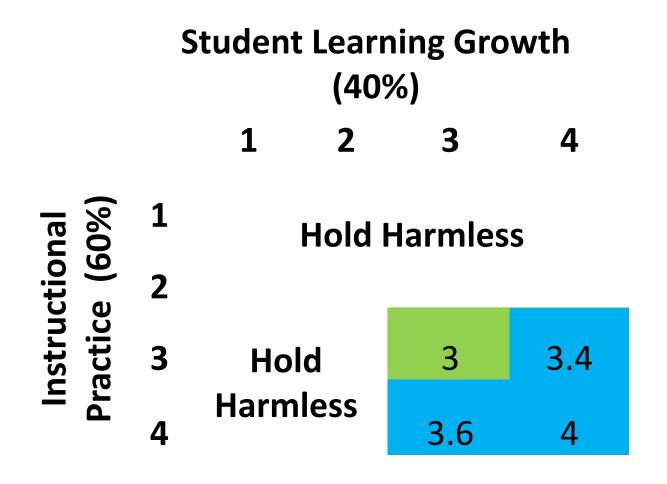
4-HE

3-Eff

2-NI

1-U

Final Teacher Evaluation Rating



WEIGHTED-AVERAGE

HE	Eff	NI	U
3.2 - 4.0	2.1 - 3.1	1.2 - 2.0	1.0 - 1.1

Final Administrator Evaluation Rating

Student Learning Growth (50%)



WEIGHTED-AVERAGE

HE	HE Eff NI		U
3.2 - 4.0	2.1 - 3.1	1.2 - 2.0	1.0 - 1.1

FY2012 School VAM Data - Detail Report

School Type: MS School: SCHOOL

Subject	Grade	Number of Students	Number Meeting Expectation	Percent Meeting Expectation	School Component
Math	06	279	110	39.43	-1.09
	07	308	116		-2.54
	08			2 3 3 10	1.90
		Sta 277 So 200 2000			
Read	06	<u> </u>	2224		1.54
	07	509 509	2 3 2 / 2 3	* * * * * * * * * * * * * * * * * * *	0.02
	08	URRENT TEST			1.50
		Comn 3 %			effective
		89	, y *	900 1000~	
		ommon tate per	,,,100 200 3p0 400 500 PRIOR	TEST (FY11 FCAT)	

Sample teacher report

Teacher:

Primary Assignment:

Elementary School

This evaluation of student growth performance for teachers is based entirely on data produced by the Florida Department of Education (FDOE), which was calculated using their Value Added Model (VAM). This teacher was evaluated using the teacher data for Reading and Math.

FDOE data for Reading and Math

					Common Score	State
	School	Grade		Teacher	Reading and	Percent
Data for	Number	Level	Subject	VAM	<mark>Math</mark>	Rank
	<mark>2141</mark>	<mark>05</mark>	Reading	<mark>0.47</mark>	<mark>-2.89</mark>	<mark>10</mark>
	<mark>2141</mark>	<mark>05</mark>	<mark>Math</mark>	<mark>-4.69</mark>		

When compared with other teachers across the State based on the above data, this teacher had a State percent rank of 10.

DRAFT TEACHER REPORT

Calculation of FY2012 Student Growth Performance Level for Teachers

Student Growth Performance Levels are assigned based on the table below.

State Percent	Actual	Reported
Rank	Student Growth Performance Level	Student Growth Performance Level
0% to < 2%	Unsatisfactory	Effective
2% to < 15%	Needs Improvement / Developing	Effective
15% to < 87%	Effective	Effective
87% to 100%	Highly Effective	Highly Effective

For the FY2012 school year, the lowest possible Reported Student Growth Performance Level is "Effective".

Based on the above information, this teacher was assigned a Student Growth Performance Level of "Effective*".

For additional explanation of the VAM calculations, please go to the school district website at http://www.palmbeachschools.org/dre/documents/final-vam-explanation-for-teachers.pdf.

List of Students in FY2012 Used on VAM Calculation

School Type:MS School Name: MID
Teacher:

Subject	Grade	Student ID	Last Name	First Name	FY11 Scale Score	FY12 Scale Score	Predicted FY12 Scale Score	Residual	Met Expectation
MATH	07			HAROLD	228	228	232.75	-4.75	No
				IVAN	246	292	257.31	34.69	Yes
				MICHAEL	229	247	242.37	4.63	Yes
				RICARDO	225	231	232.60	-1.60	No
				DANIEL	231	230	236.69	-6.69	No
			D	CHRISTIAN	239	262	248.79	13.21	Yes
	08			ERIKA	237	249	246.12	2.88	Yes
				LINTINI	196	221	208.54	12.46	Yes
				GLENYS	212	220	219.81	0.19	Yes
				DEVIN	232	245	232.90	12.10	Yes
				BRAIAN	252	267	253.25	13.75	Yes
				EDGAR	231	251	234.21	16.79	Yes
				HECTOR	220	239	229.33	9.67	Yes

Resources

- Research & Evaluation Website (PPT)
- <u>FLDOE Resources</u> on Student Growth
 - State Educator Evaluation System (Video)
 - Value-Added Model White Paper (Word, 841KB)
 - Value-Added Model Technical Report (Word, 601KB)
 - Presentation on the Value-Added Model (PDF, 103KB)
 - FDOE VAM Course Codes used in Value-Added Model
- Oak Tree Analogy of Value-added

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