

Student Growth Percentile

Understanding Alliance CST 2009
and CST 2010 English and Math
Growth

Adapted from “Growth Model” by John Schacter, Ph.D.



Information about The College Ready Promise Growth Model

Online webinars: <https://thevaanetwork.com>

Quick Start Guide

FAQ Sheet



What are Student Growth Percentiles (SGP)?

Student Growth Percentiles (SGP) measure how much a student has learned from one year to the next compared to other students with similar test scores.

- ✓ In order to better understand SGP, we need to understand a few key terms



Terminology

Scale Score

- ✓ A converted score so all tests with different question numbers can be compared.

Growth

- ✓ Amount of increase or decrease between scores.

Achievement

- ✓ Scoring in proficient or advanced bands.

Median

- ✓ The middle term or number in a series.

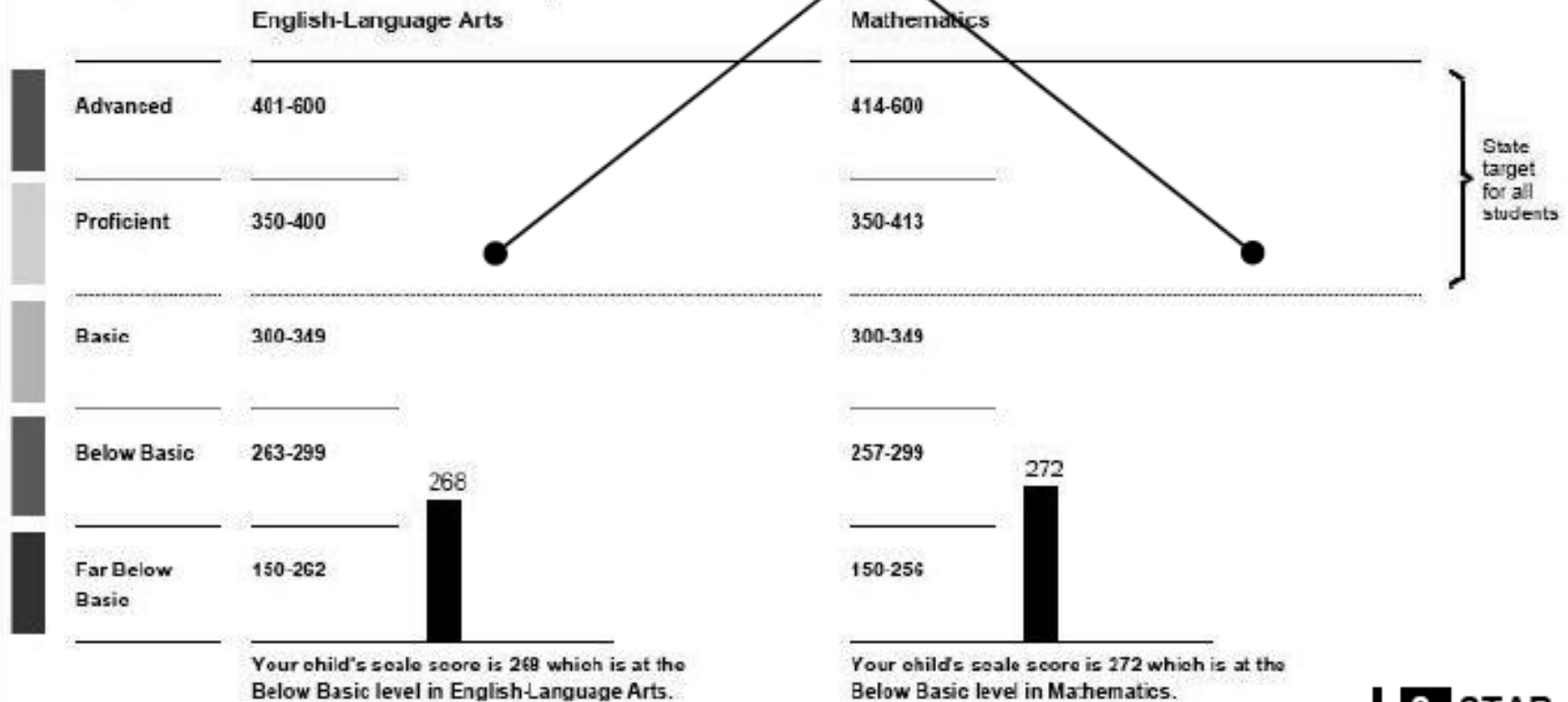


Scaled Score

Your child's overall results on the California Standards Tests

1. Overall results

Your child's scale scores and performance levels



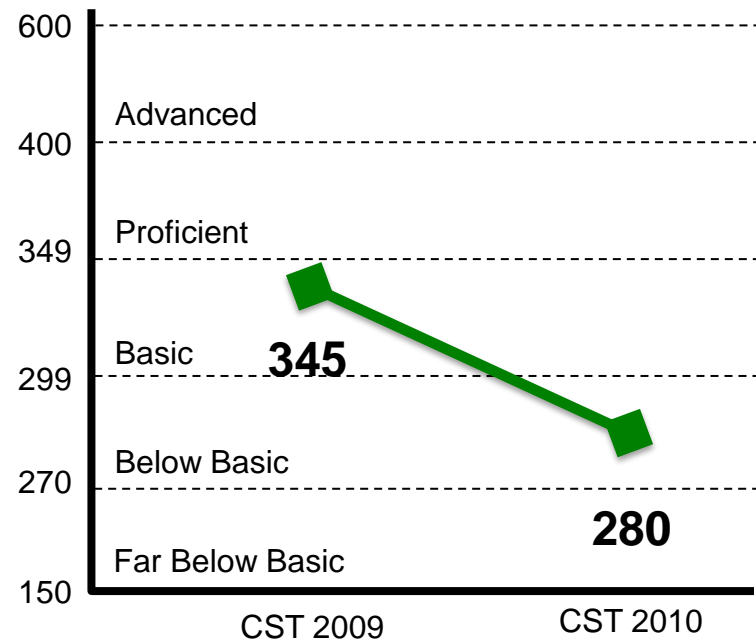
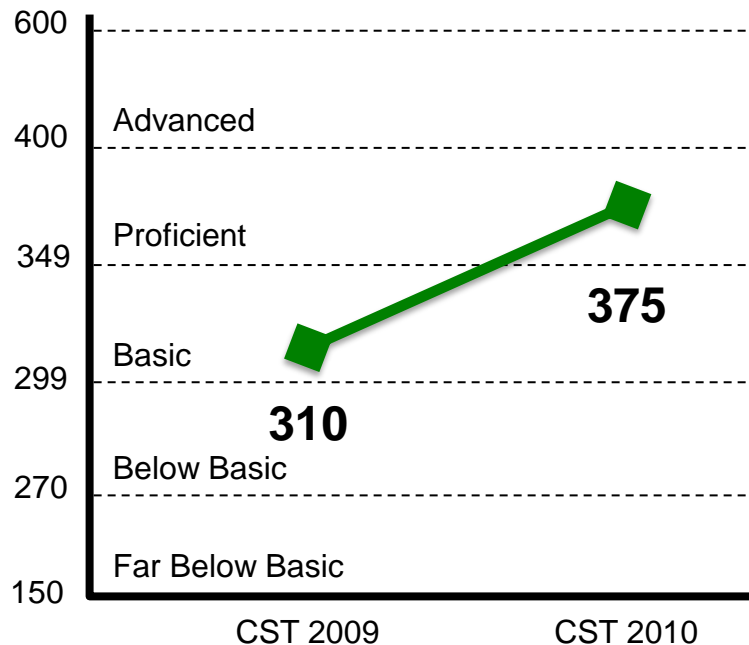
2. STAR results

Find complete STAR results at <http://star.cde.ca.gov> and your school's Accountability Report Card (SARC) at <http://www.cde.ca.gov/ta/ac/sa/> or ask for a copy of the SARC at your child's school.



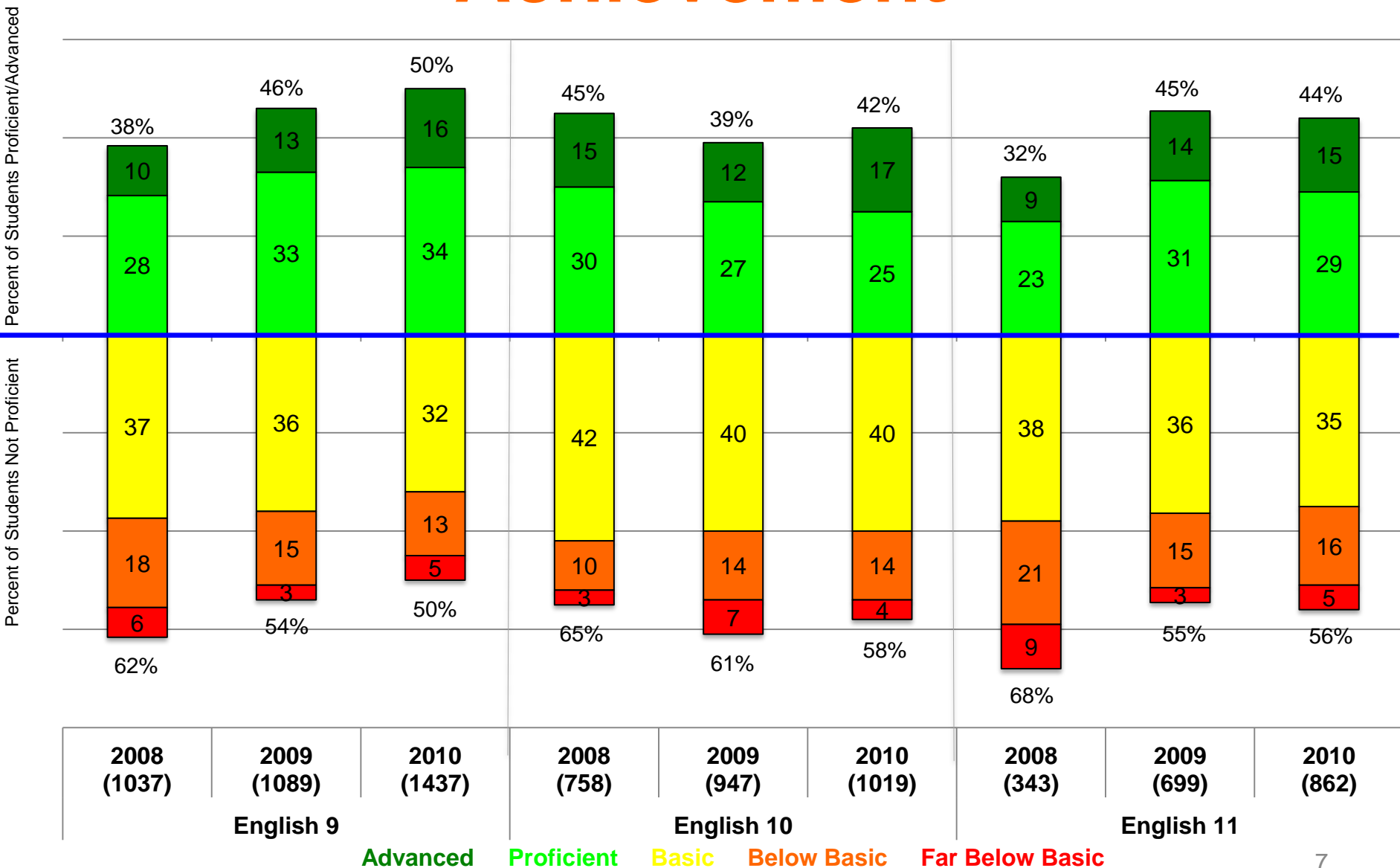
Growth

- ✓ Growth measures performance from one year to the next.
- ✓ Growth can either increase or decrease.





Achievement





Median

In this example, 50% of the students scored higher than Eric and 50% of the students scored lower than him. Eric is the median.

Student	Scaled Score
Alex	248
Bertha	259
Charlie	301
Denise	315
Eric	325
Francis	340
George	370
Harriet	400
Ignacio	425



Key Concepts about Measuring Growth

Growth is distinct from achievement

- ✓ A student can achieve at a low level but grow quickly, and vice versa

Each student is compared only to their academic peers (students with similar achievement levels)

- ✓ The comparison base for TCRP is all 2nd to 11th grade students in TCRP and LAUSD

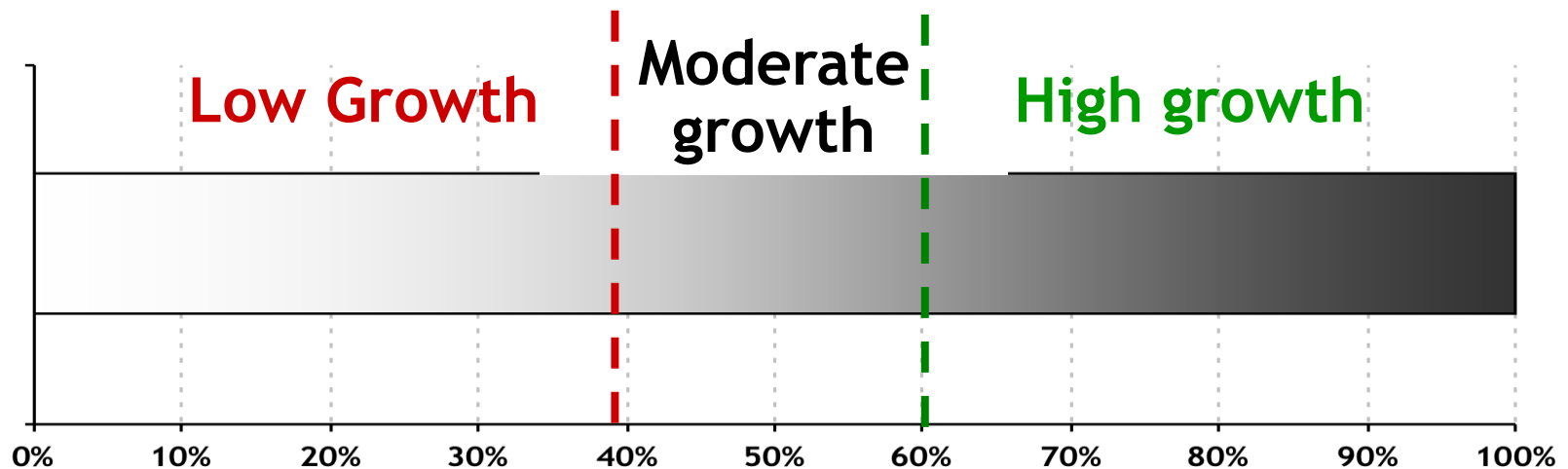
Demographic variables, socio-economic status and initial achievement have virtually no impact on student growth results



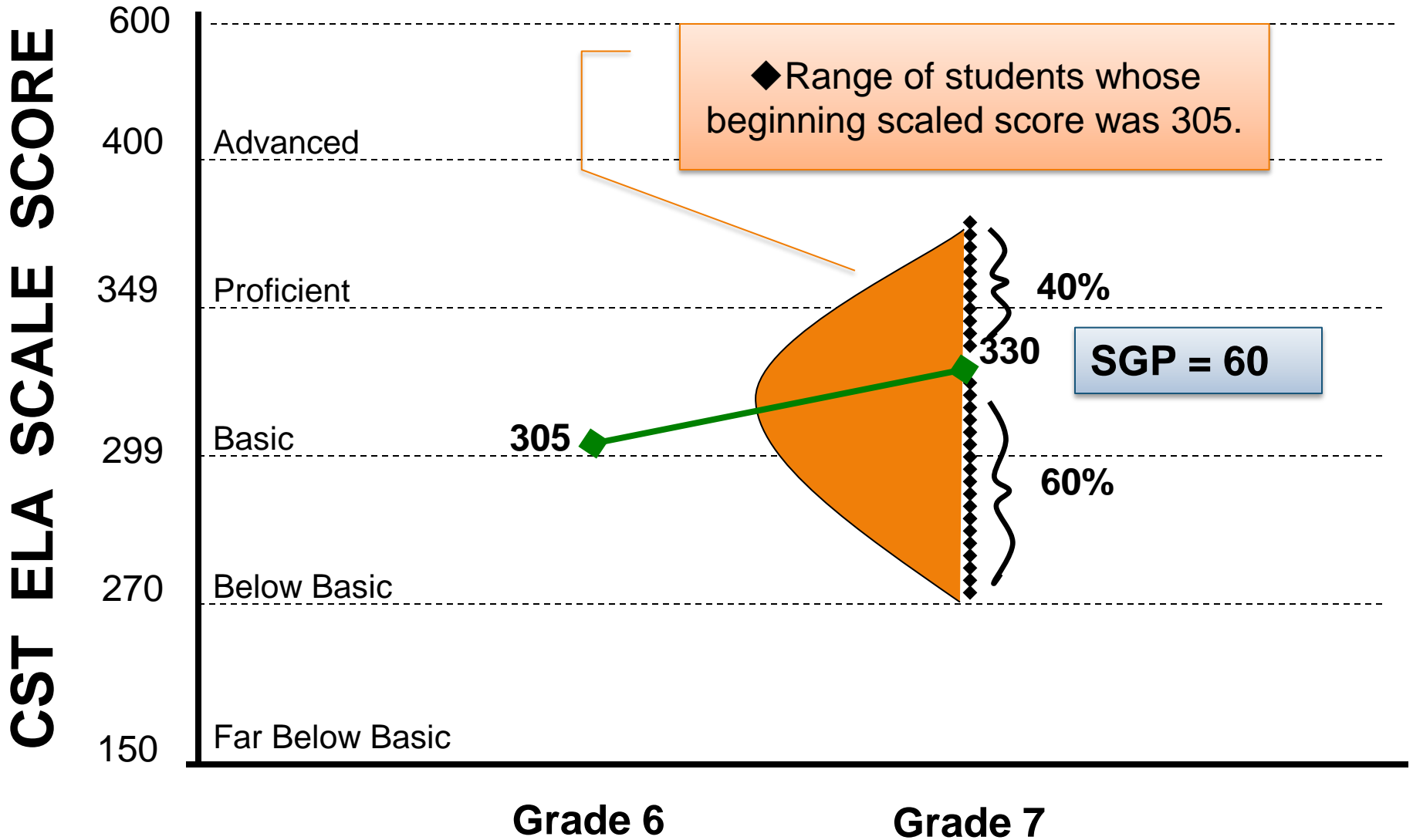
How does SGP show a Student's Growth?

SGP measures the rate of change students make in relation to their academic peers. This rate of change is reported as a percentile from 1 to 99.

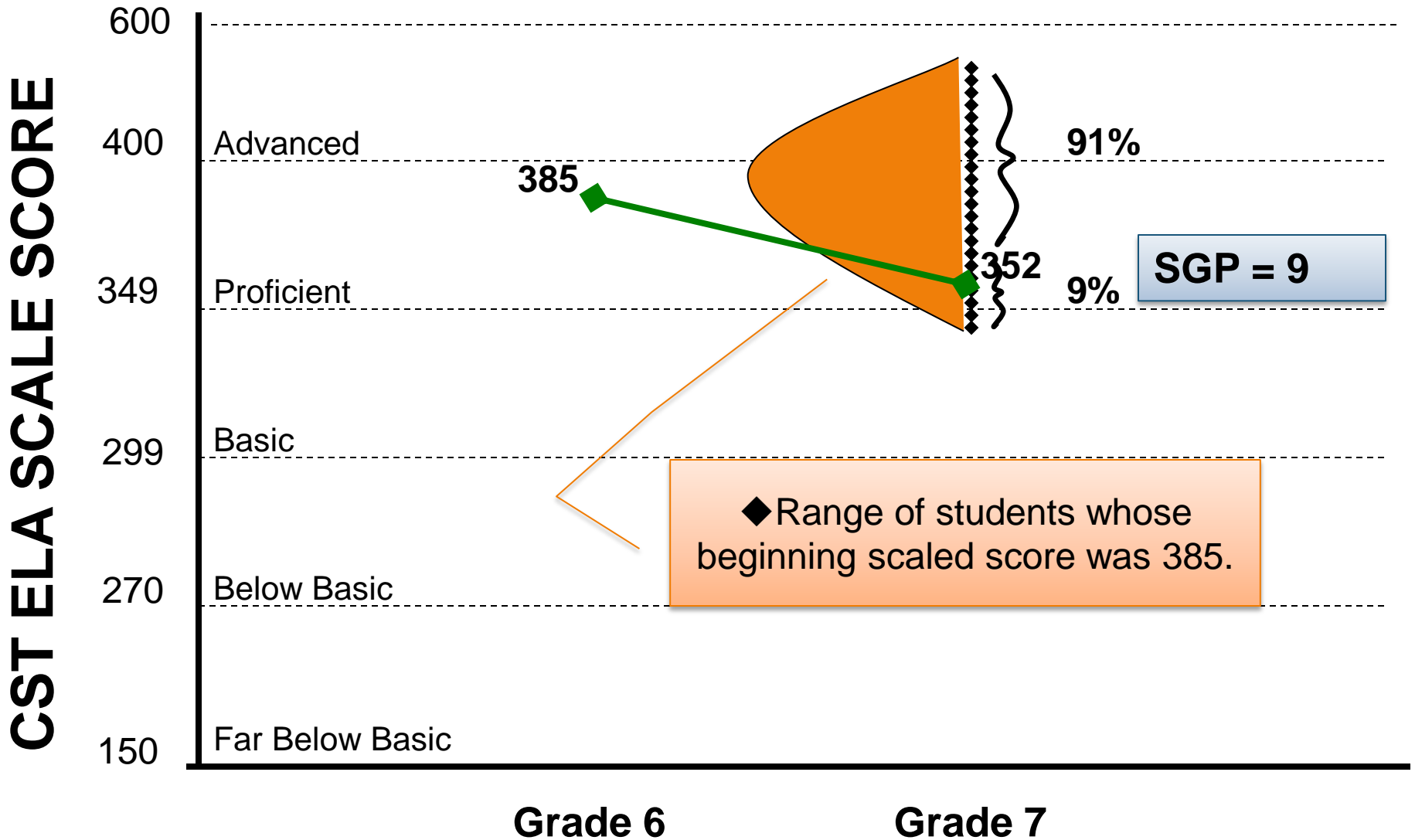
- ✓ Higher percentiles indicate more growth.
- ✓ Lower percentiles indicate less growth.



Student Growth Percentile (SGP) Score for Elijah



Student Growth Percentile (SGP) Score for Rosa



Reporting SGPs for Teachers

Last name	SGP
Hernandez	21
Bing	24
Johnson	27
Harrison	32
Morales	34
Portis	47
Jackson	55
Stills	61
Lund	63
Hershberg	74
James	81
Andres	88
Sims	95

- This list is representative for all students of one teacher.
- **Note: SGPs are sorted from lowest to highest.**
- The point where 50% of students have a higher SGP, and 50% have a lower SGP is the median.

Median SGP for this teacher is 55.

Teacher SGP Report Sample

District: [Redacted] Year: 2010 Level: Student (Teacher) School: [Redacted] Content: Ela

2010 Individual Student Ela Growth Percentiles by Teacher

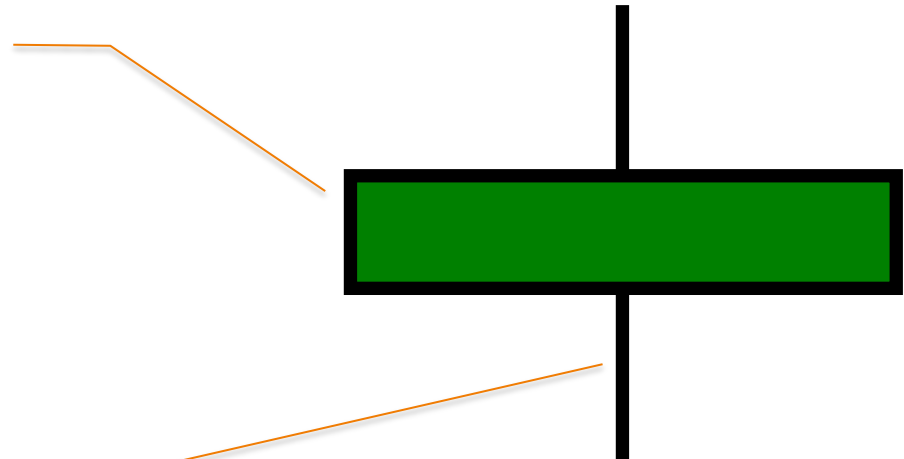
Teacher	Grade	N	Growth Percentile 2010	Pretest = CST 2009	Posttest = CST 2010	Growth Percentile = SGP	Achievement = CST 2010 Proficiency
[Redacted]	7	53	76				

Year	Grade	Last Name	First Name	Pretest	Posttest	Growth Percentile	Achievement
2010	7	[Redacted]	[Redacted]	357	320	8	BASIC
2010	7	[Redacted]	[Redacted]	380	370	30	PROFICIENT
2010	7	[Redacted]	[Redacted]	372	362	31	PROFICIENT
2010	7	[Redacted]	[Redacted]	389	382	33	PROFICIENT
2010	7	[Redacted]	[Redacted]	398	391	33	PROFICIENT
2010	7	[Redacted]	[Redacted]	409	404	38	ADVANCED
2010	7	[Redacted]	[Redacted]	403	399	38	PROFICIENT
2010	7	[Redacted]	[Redacted]	436	432	45	ADVANCED
2010	7	[Redacted]	[Redacted]	372	374	49	PROFICIENT
2010	7	[Redacted]	[Redacted]	415	420	52	ADVANCED
2010	7	[Redacted]	[Redacted]	389	395	52	PROFICIENT
2010	7	[Redacted]	[Redacted]	468	464	57	ADVANCED
2010	7	[Redacted]	[Redacted]	389	399	57	PROFICIENT
2010	7	[Redacted]	[Redacted]	393	404	60	ADVANCED
2010	7	[Redacted]	[Redacted]	384	395	61	PROFICIENT
2010	7	[Redacted]	[Redacted]	456	464	66	ADVANCED
2010	7	[Redacted]	[Redacted]	364	378	66	PROFICIENT
2010	7	[Redacted]	[Redacted]	328	340	67	BASIC
2010	7	[Redacted]	[Redacted]	393	409	68	ADVANCED

Candle and Wick Terms

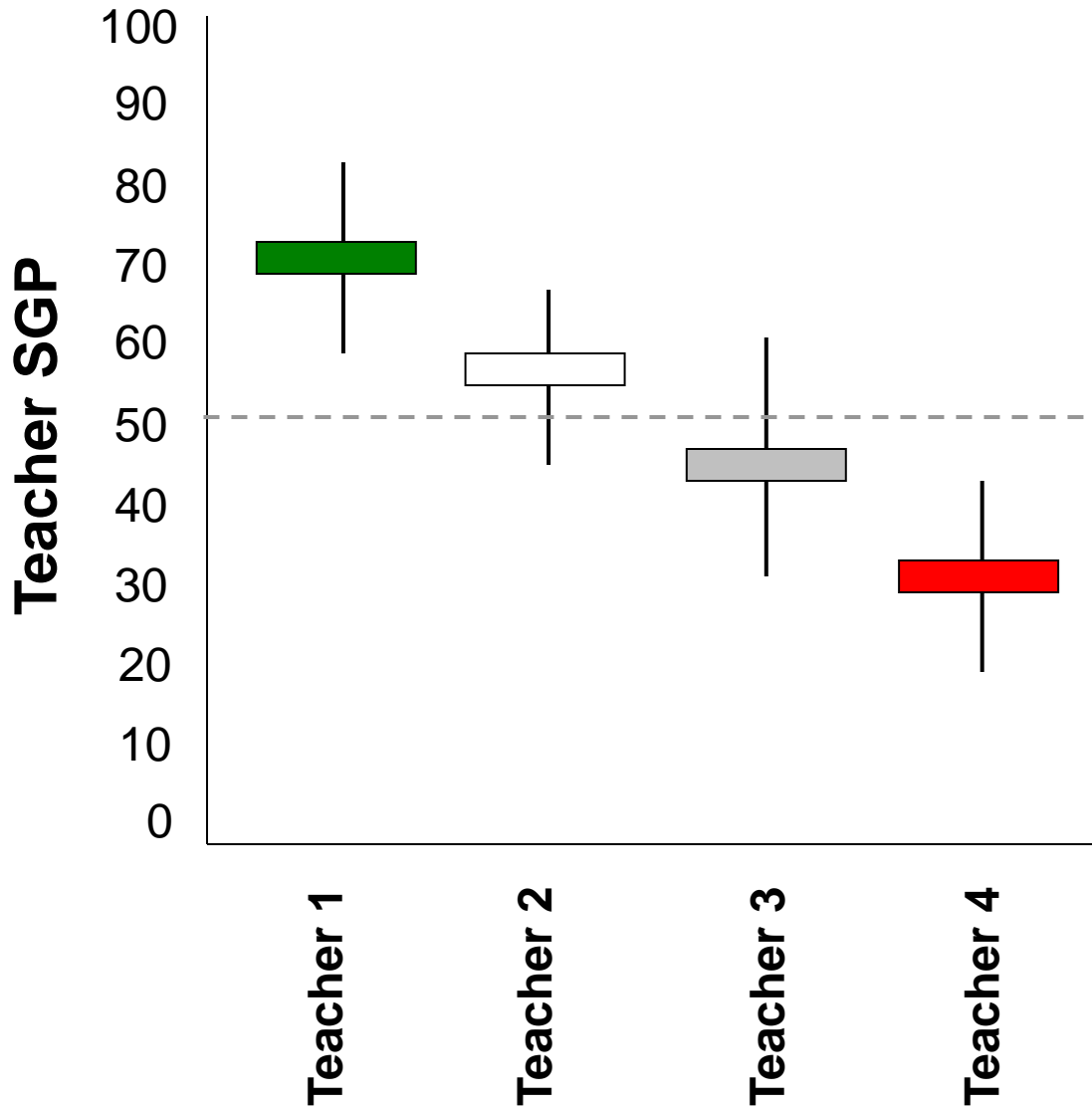
Candle is the overall SGP and median of the sample.
Example: teacher's class, school-wide.

Wick represents the range of all SGP scores above and below the median.



Note: The size of the wick varies depending on the sample size and range above and below the SGP.

Candle and Wick Reports



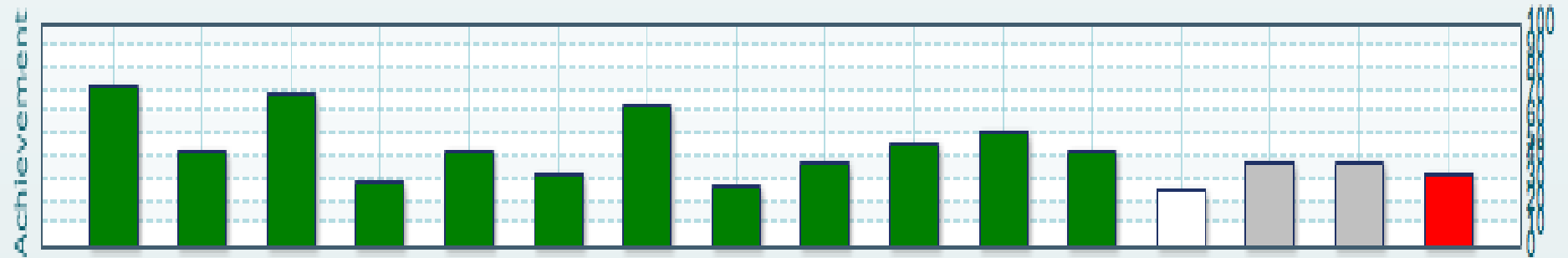
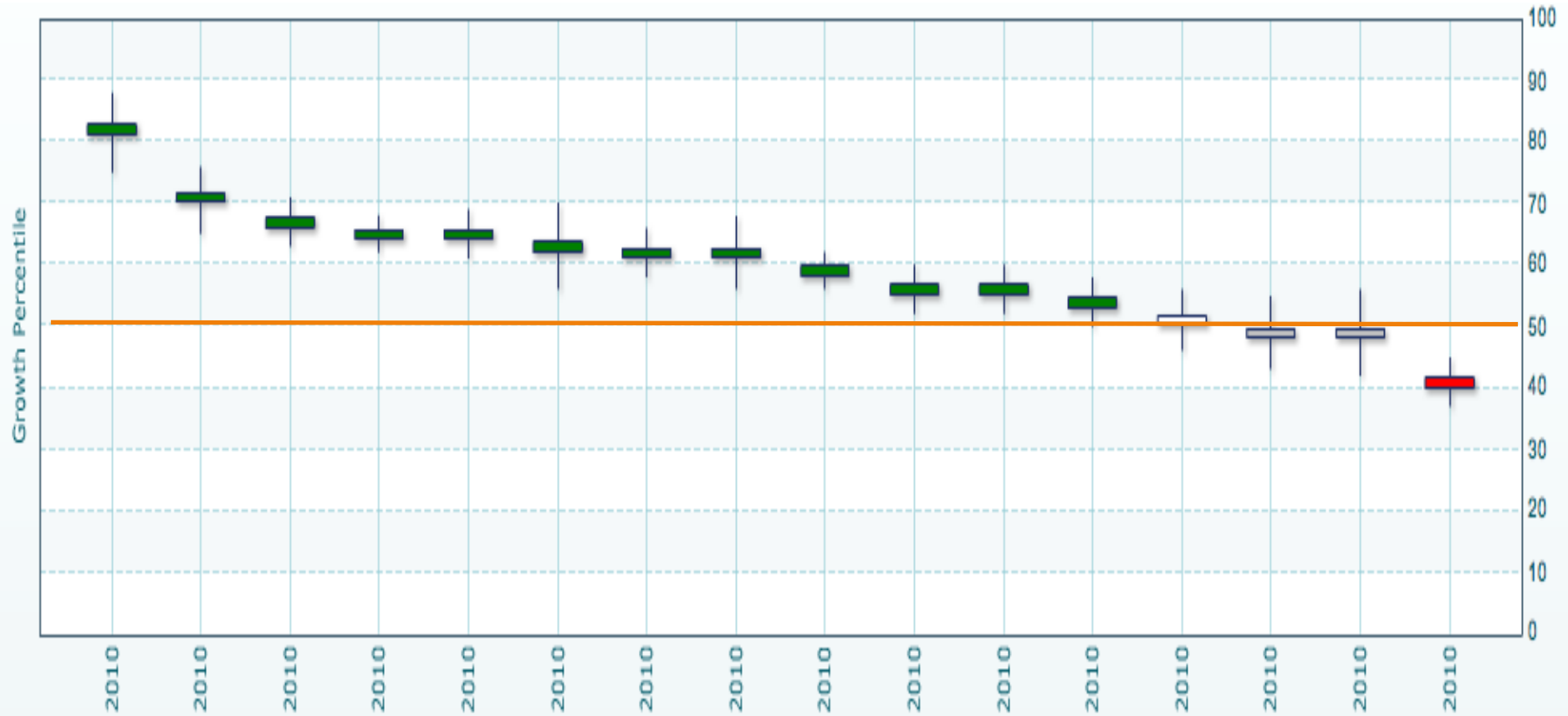
Green candle: SGP and range above 50th percentile.

White candle: SGP above the 50th percentile but range extends above and below.

Gray candle: SGP below the 50th percentile but range extends above and below.

Red candle: SGP and range below the 50th percentile.

Candle and Wick Reports





Common SGP Questions

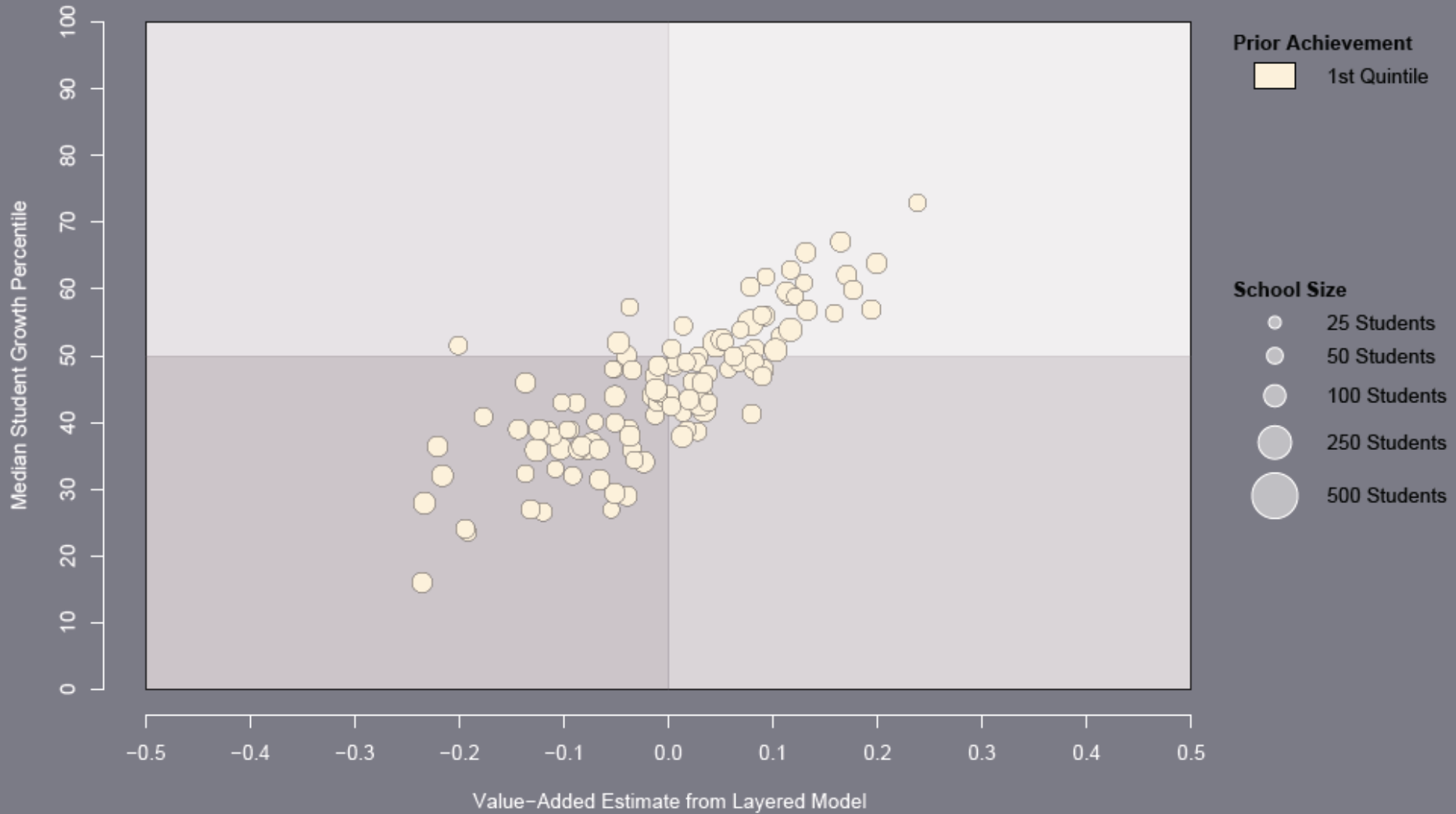
Would my final SGP be influenced by the achievement level of the students entering my class?

In other words:

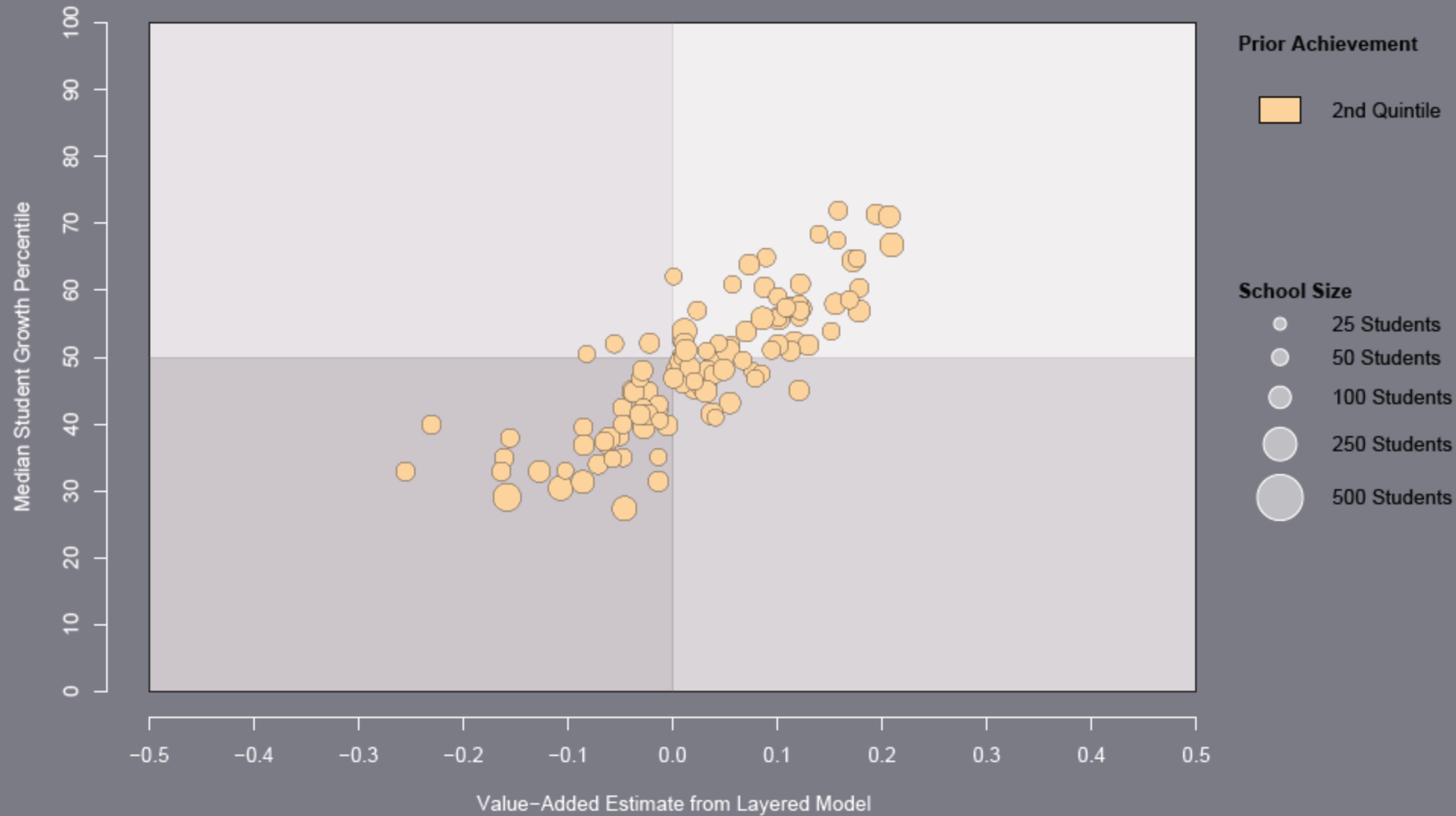
- ✓ Do low performing students grow less?
- ✓ Do middle performing students grow less?
- ✓ Do high performing students grow less?

Short answer: No

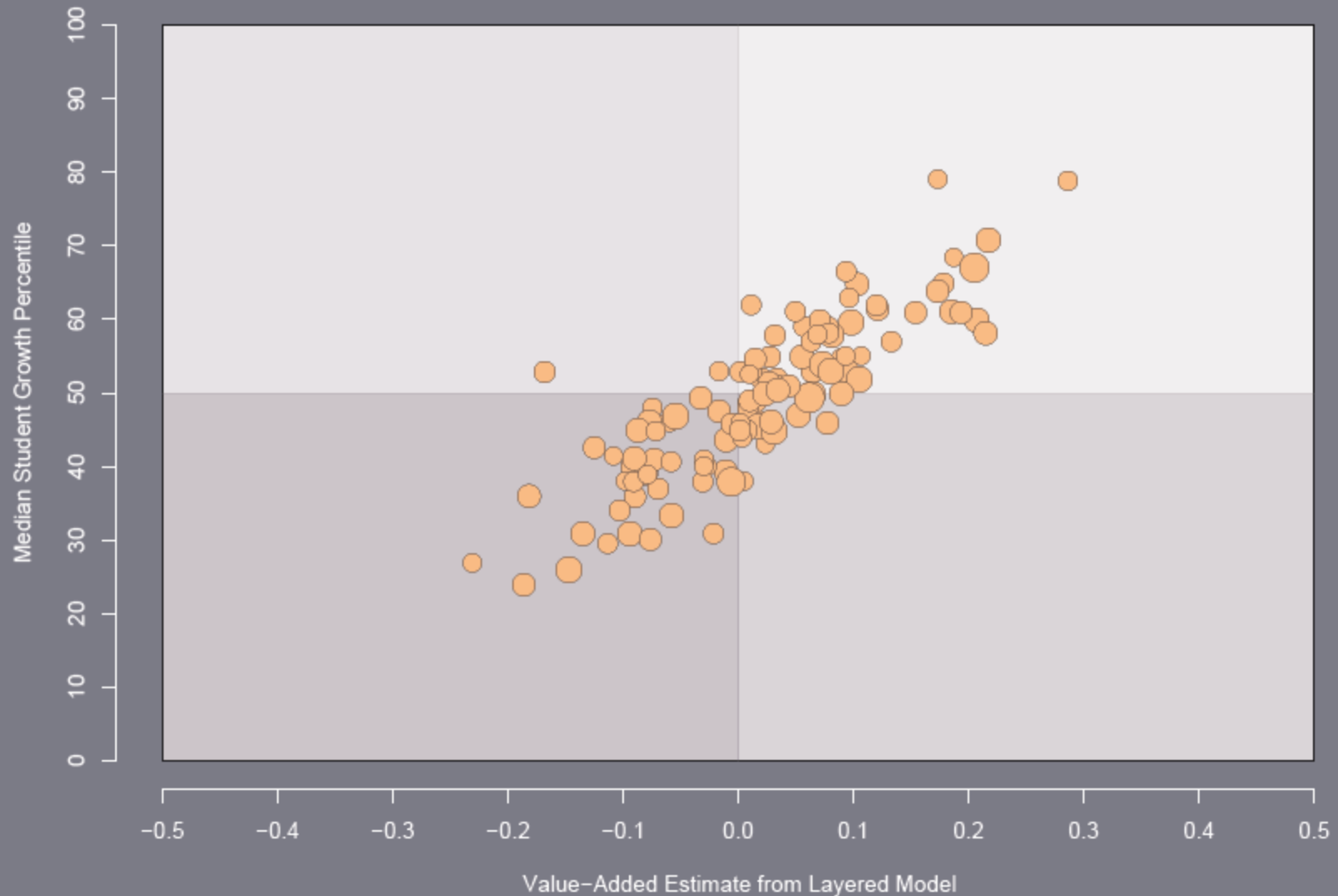
Far Below Basic & Growth



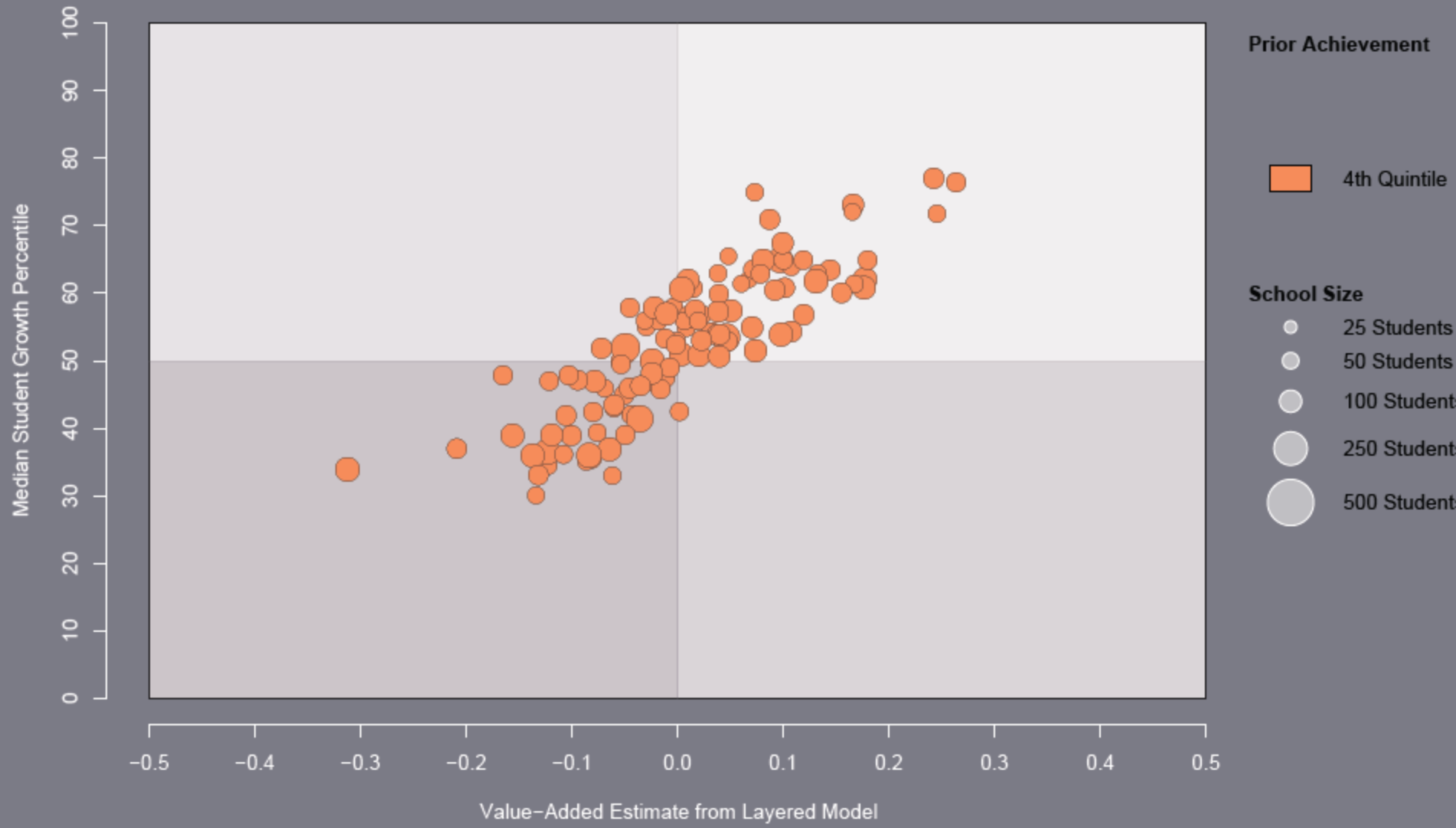
Below Basic & Growth



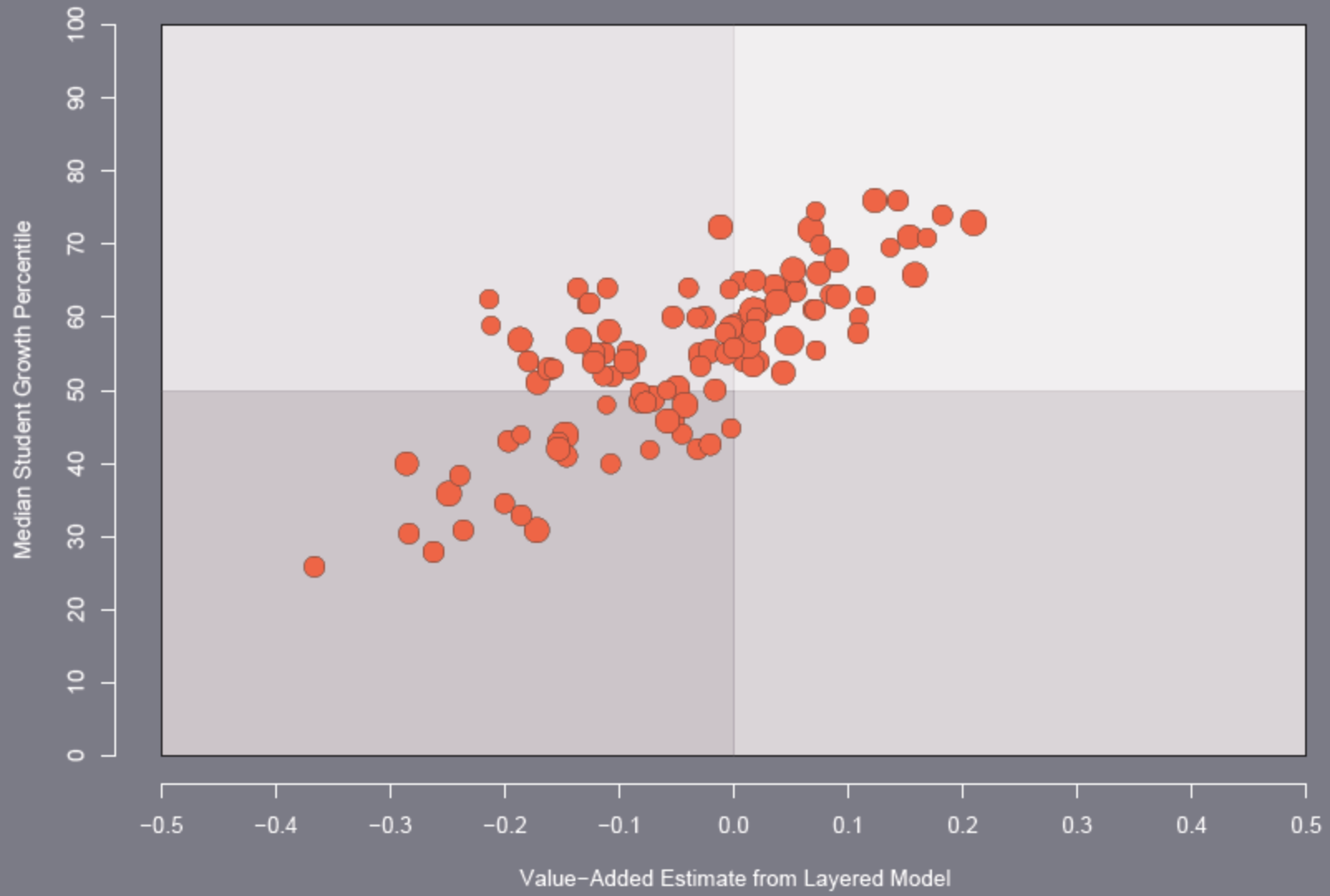
Basic & Growth



Proficient & Growth



Advanced & Growth



Prior Achievement

5th Quintile

School Size

- 25 Students
- 50 Students
- 100 Student
- 250 Student
- 500 Student



How will the Alliance use SGP Data?

- ✓ **To evaluate teachers (a component of teacher effectiveness calculation)**
- ✓ **Determine the amount of growth made by students, teachers, and schools**
- ✓ **Analyze if students are growing enough to exceed state standards**
- ✓ **Explore if students grow similarly across content areas, grade levels, and classrooms**